

# ***Service Manual***

*Pioneer*  
**TOYOTA**

ORDER NO.  
**CRT2393**

## **LEXUS ES300** **AUDIO SYSTEM** **HEAD UNIT**

VEHICLE	DESTINATION	PRODUCED AFTER	ID No.	TOYOTA PART No.	PIONEER MODEL No.
LEXUS ES300	U.S.A.,CANADA	August 1999	P1715	86120-33320	KEX-M8196ZT/UC KEX-M8196ZT-91/UC
LEXUS ES300	MIDDLE EAST	August 1999	P2724	86120-33241	KEX-M8396ZT-02/ES KEX-M8396ZT-92/ES

# ***Service Manual***

*Pioneer*  
**TOYOTA**

ORDER NO.  
**CRT2456**

## **LEXUS ES300** **AUDIO SYSTEM** **HEAD UNIT**

VEHICLE	DESTINATION	PRODUCED AFTER	ID No.	TOYOTA PART No.	PIONEER MODEL No.
LEXUS ES300	MIDDLE EAST	January 2000	P2726	86120-33390	KEX-M8396ZT-03/ES KEX-M8396ZT-93/ES

**NOTE:**

- KEX-M8396ZT-93/ES is supplementary genuine part for a TOYOTA vehicle, and a Pioneer product for recycling stock.
- Supplementary model is identical to the original except for the addition of following items.

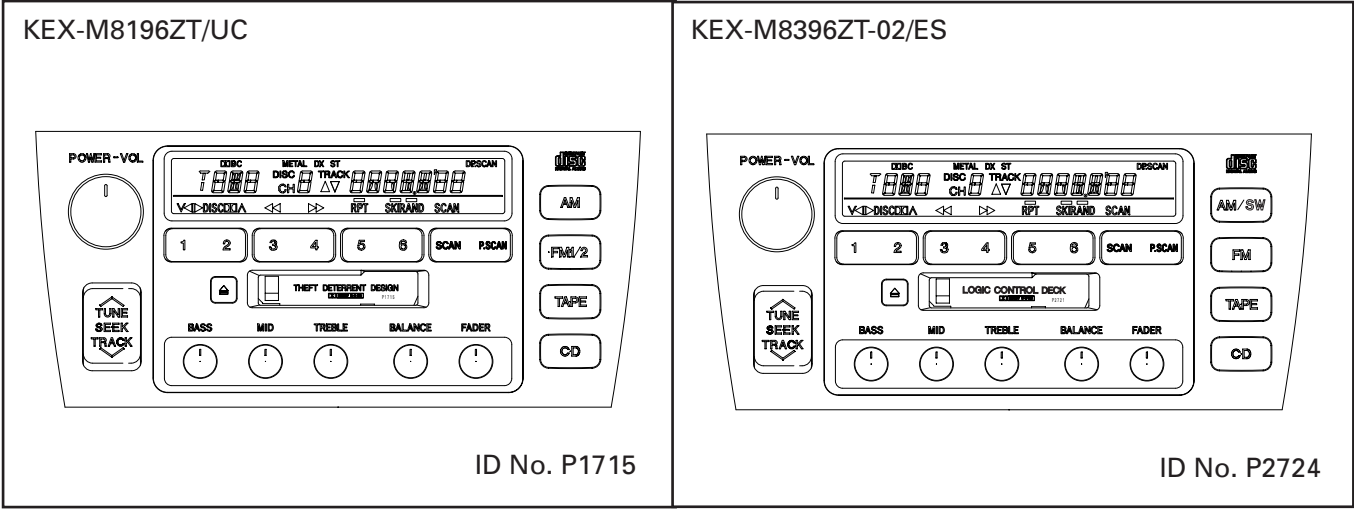
Description	Part No.
	KEX-M8396ZT-93/ES
Polyethylene Bag	CEG1026
Carton	CHA2025
Contain Box	CHL4051
Protector	CHP1888,1889

- This service manual should be used together with the following manual(s):

Model	Order No.	Mech. Module	Remarks
CX-529	CRT1507	2L	Cassette Mech. Module:Mech.Description, Disassembly
KEX-M8396ZT-02/ES	CRT2393		

**EXPLODED VIEWS AND PARTS LIST****EXTERIOR(Page 4)****● EXTERIOR SECTION PARTS LIST**

Mark	No.	Description	Part No.	
			KEX-M8396ZT-02/ES	KEX-M8396ZT-03/ES
	48	Grille Unit	CXB5281	CXB5860
	49	Door	CAT2126	CAT2163
	58	Panel	CNS5175	CNS5954



NOTE:

- KEX-M8196ZT-91/UC and KEX-M8396ZT-92/ES are supplementary genuine part for a TOYOTA vehicle, and a Pioneer product for recycling stock.
- Supplementary model is identical to the original except for the addition of following items.

Description	Part No.	
	KEX-M8196ZT-91/UC	KEX-M8396ZT-92/ES
Polyethylene Bag	CEG1026	CEG1026
Carton	CHA2025	CHA2025
Contain Box	CHL3842	CHL3841
Protector	CHP1888,1889	CHP1888,1889

- This service manual should be used together with the following manual(s):

Model	Order No.	Mech. Module	Remarks
CX-529	CRT1507	2L	Cassette Mech. Module:Circuit Description, Mech.Description, Disassembly

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## 1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.

Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

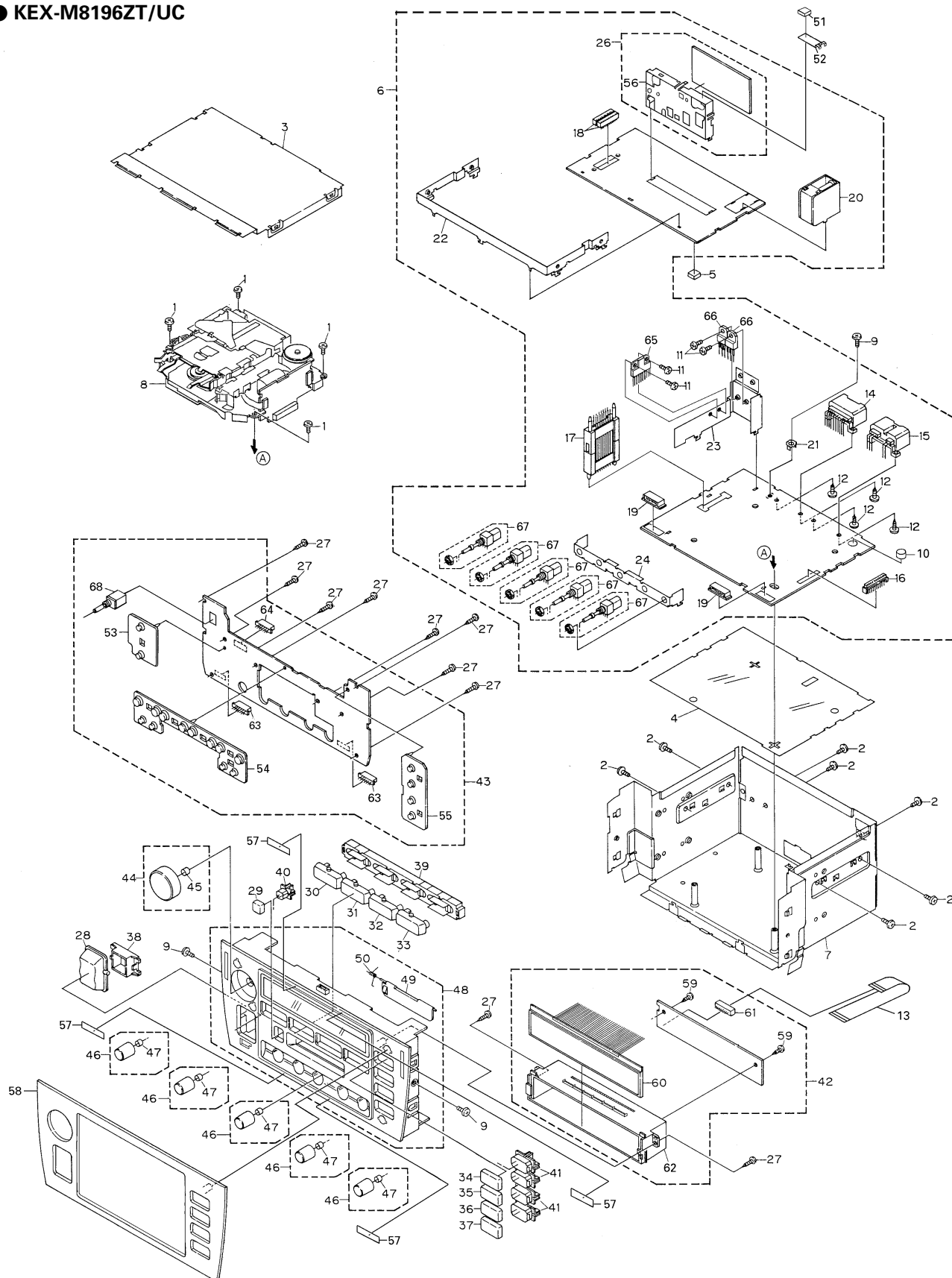
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.

If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

## 2. EXPLODED VIEWS AND PARTS LIST

### 2.1 EXTERIOR

#### ● KEX-M8196ZT/UC



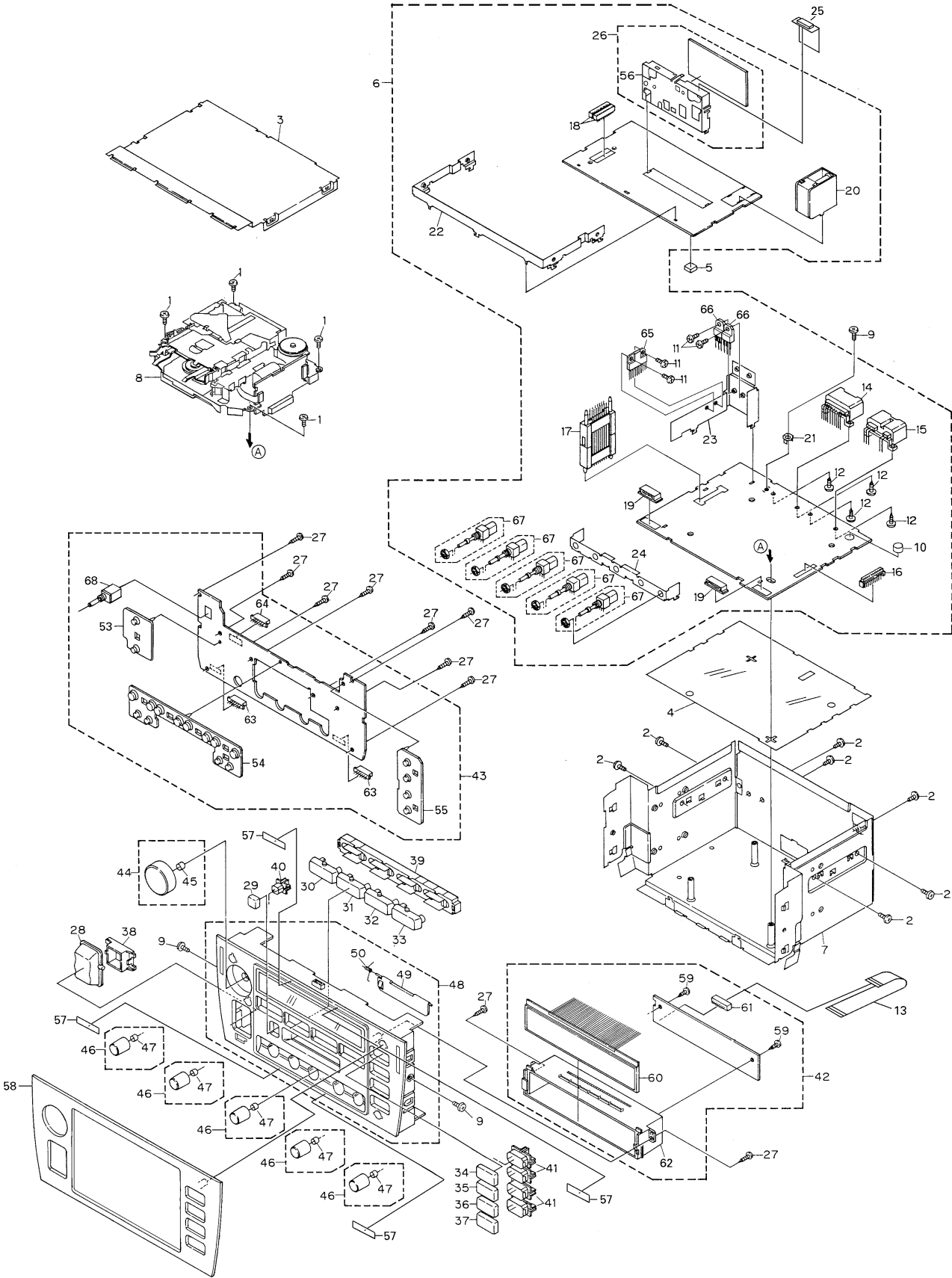
**NOTE:**

- Parts marked by “\*” are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

**● EXTERIOR SECTION PARTS LIST****● KEX-M8196ZT/UC**

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC	36	Button(TAPE)	CAC6020
2	Screw	BMZ30P050FMC	37	Button(CD)	CAC6021
3	Case	CNB1980	38	Holder	CNV5561
4	Insulator	CNM5987	39	Holder	CNV5560
5	Spacer	CNM5293	40	Holder	CNV3647
6	Main Unit	CWM6072	41	Holder	CNV3648
7	Chassis Unit	CXB3159	42	LCD Unit	CWM6074
8	Cassette Mechanism Module	EXK3240	43	Keyboard Unit	CWM6073
9	Screw	IMS30P050FMC	44	Knob Unit	CXB3157
10	MIC(MIC351)	CPM1011	45	Spring	CBL-108
11	Screw	BMZ30P060FMC	46	Knob Unit	CXB3158
12	Screw(M3x5)	CBA1409	47	Spring	CBL-108
13	Connector	CDE5764	48	Grille Unit	CXB3160
14	Connector(CN901)	CKM1311	49	Door	CAT1990
15	Plug(CN902)	CKM1221	50	Spring	CBH1371
16	Connector(CN751)	CKS2826	51	Cushion	CNM6317
17	Connector(CN401)	CKS3578	52	Earth Plate	CNC8383
18	Connector(CN652,653)	CKS3009	53	Rubber	CNV5558
19	Plug(CN701,702)	CKS3156	54	Rubber	CNV5556
20	Antenna Jack(CN651)	CKX1024	55	Rubber	CNV5557
21	Holder(CN1)	CNC2218	56	Holder	CNC6774
22	Holder	CNC4981	57	Cushion	CNM6411
23	Holder	CNC7716	58	Panel	CNS5175
24	Holder	CNC6058	59	Screw	BPZ20P060FMC
25	.....		60	LCD	CAW1528
26	FM/AM Tuner Unit	CWE1523	61	Connector(CN1905)	CKS2757
27	Screw	BPZ26P100FMC	62	Holder	CNV5559
28	Button(UP,DOWN)	CAC5889	63	Connector(CN1901,1902)	CKS2666
29	Button(EJECT)	CAC6181	64	Connector(CN1904)	CKS2757
30	Button(1,2)	CAC6177	65	IC(IC921)	PA2024A
31	Button(3,4)	CAC6178	66	Transistor(Q958,959)	2SB942
32	Button(5,6)	CAC6179	67	Volume(VR901-905)	CCS1119
33	Button(SCAN,P.SCAN)	CAC6180	68	Volume(VR1901)	CCS1226
34	Button(AM)	CAC6182			
35	Button(FM1/2)	CAC6019			

● KEX-M8396ZT-02/ES



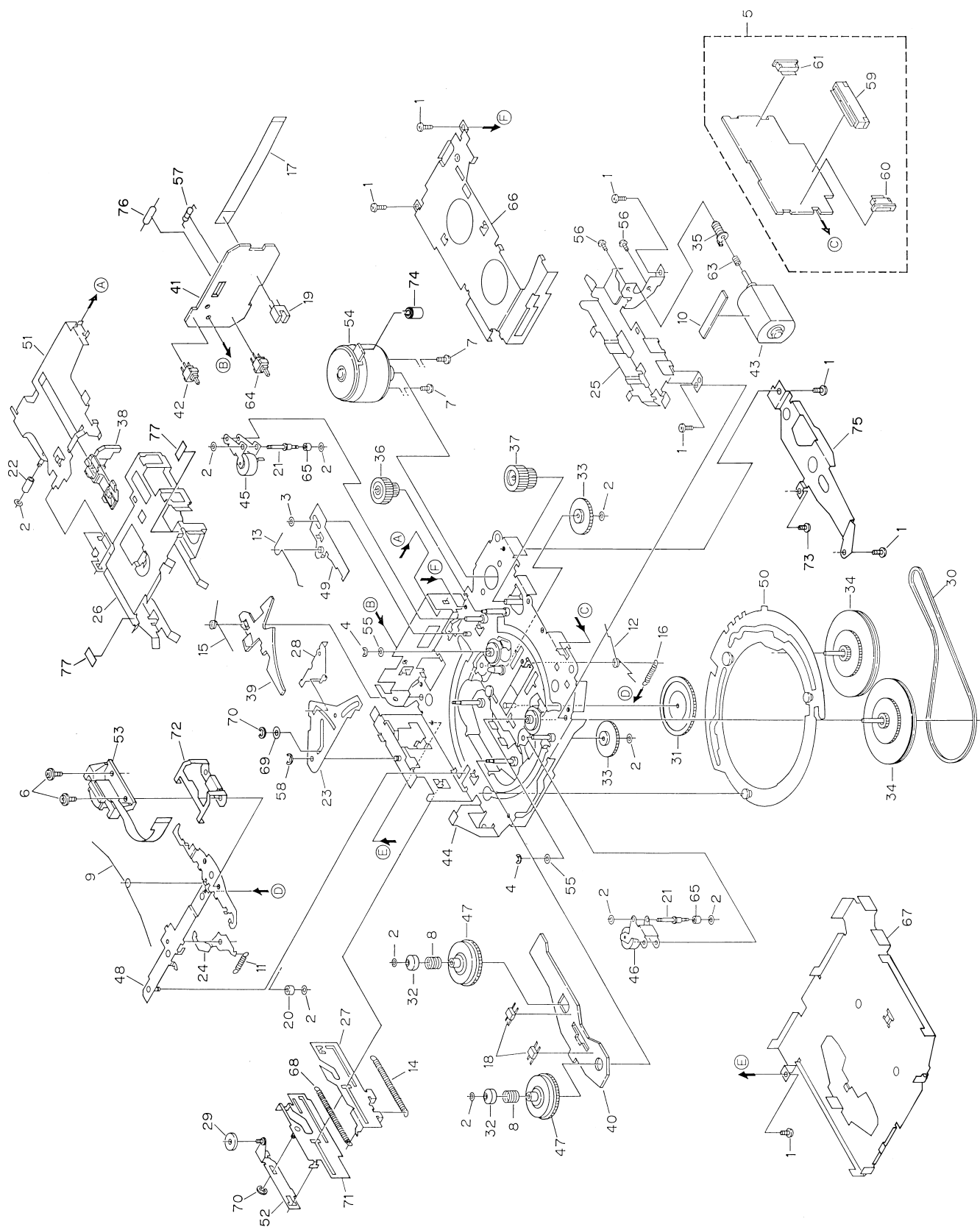


● EXTERIOR SECTION PARTS LIST

● KEX-M8396ZT-02/ES

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC	36	Button(TAPE)	CAC6020
2	Screw	BMZ30P050FMC	37	Button(CD)	CAC6021
3	Case	CNB1980	38	Holder	CNV5561
4	Insulator	CNM5987	39	Holder	CNV5560
5	Spacer	CNM5293	40	Holder	CNV3647
6	Main Unit	CWM7069	41	Holder	CNV3648
7	Chassis Unit	CXB3159	42	LCD Unit	CWM7071
8	Cassette Mechanism Module	EXK3240	43	Keyboard Unit	CWM7070
9	Screw	IMS30P050FMC	44	Knob Unit	CXB3157
10	MIC(MIC351)	CPM1011	45	Spring	CBL-108
11	Screw	BMZ30P060FMC	46	Knob Unit	CXB3158
12	Screw(M3x5)	CBA1409	47	Spring	CBL-108
13	Connector	CDE5764	48	Grille Unit	CXB5281
14	Connector(CN901)	CKM1311	49	Door	CAT2126
15	Plug(CN902)	CKM1221	50	Spring	CBH1371
16	Connector(CN751)	CKS2826	51	.....	
17	Connector(CN401)	CKS3578	52	.....	
18	Connector(CN652,653)	CKS3009	53	Rubber	CNV5558
19	Plug(CN701,702)	CKS3156	54	Rubber	CNV5556
20	Antenna Jack(CN651)	CKX1024	55	Rubber	CNV5557
21	Holder(CN1)	CNC2218	56	Holder	CNC6122
22	Holder	CNC4981	57	Cushion	CNM6411
23	Holder	CNC7716	58	Panel	CNS5175
24	Holder	CNC6058	59	Screw	BPZ20P060FMC
25	Shield Unit	CXB3865	60	LCD	CAW1528
26	Tuner Unit	CWE1457	61	Connector(CN1905)	CKS2757
27	Screw	BPZ26P100FMC	62	Holder	CNV5559
28	Button(UP,DOWN)	CAC5889	63	Connector(CN1901,1902)	CKS2666
29	Button(EJECT)	CAC6181	64	Connector(CN1904)	CKS2757
30	Button(1,2)	CAC6177	65	IC(IC921)	PA2024A
31	Button(3,4)	CAC6178	66	Transistor(Q958,959)	2SB942
32	Button(5,6)	CAC6179	67	Volume(VR901-905)	CCS1119
33	Button(SCAN,P.SCAN)	CAC6180	68	Volume(VR1901)	CCS1226
34	Button(AM/SW)	CAC6183			
35	Button(FM)	CAC6022			

## 2.2 CASSETTE MECHANISM MODULE

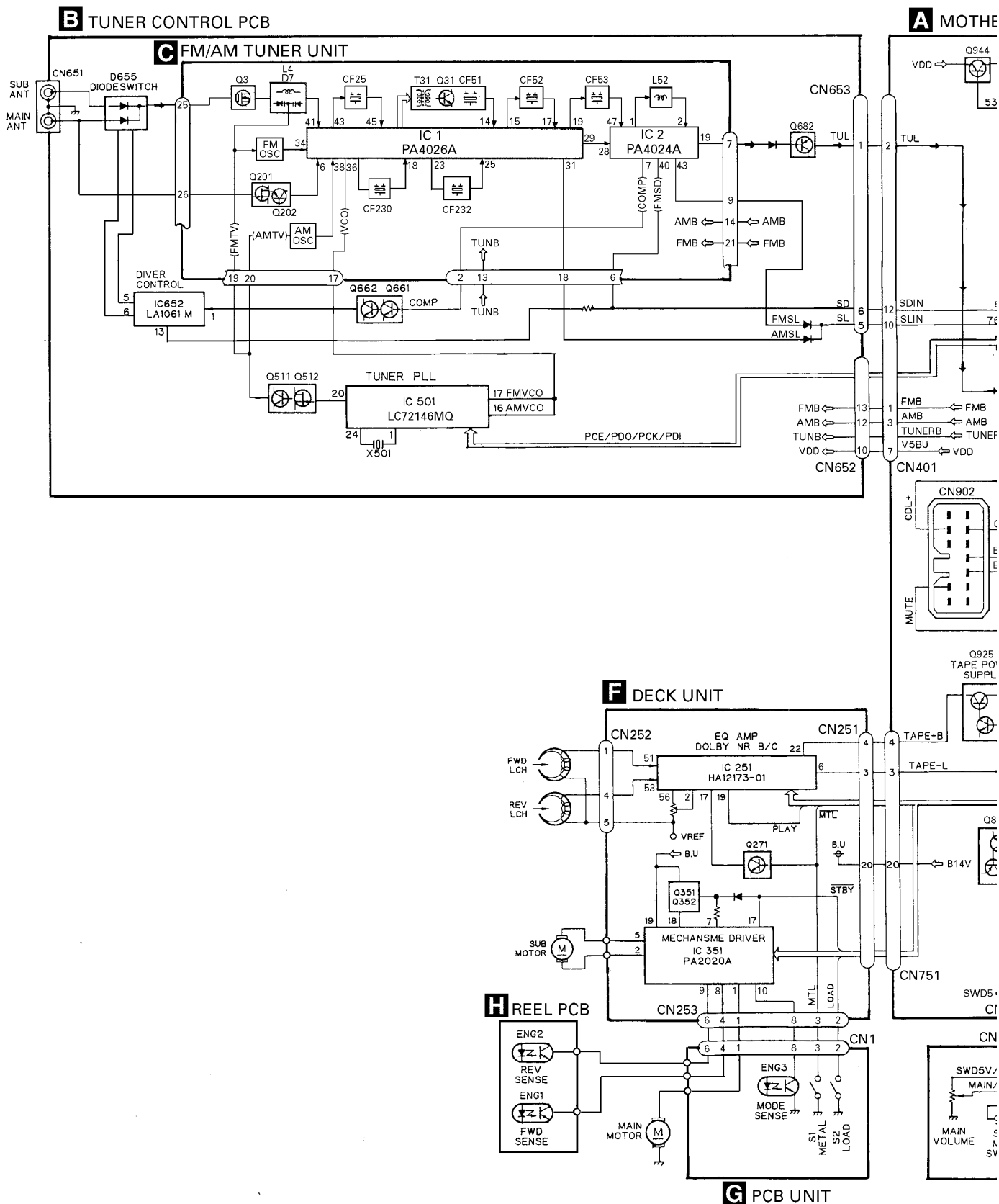


● CASSETTE MECHANISM MODULE SECTION PARTS LIST

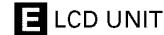
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ20P040FMC	46	Pinch Roller Unit	EXA1473
2	Washer	CBF1037	47	Reel Unit	EXA1484
3	Washer	CBF1038	48	Head Base Unit	EXA1434
4	Washer	CBG1003	49	Lever Unit	EXA1438
5	Deck Unit	EWM1008	50	Gear Unit	EXA1436
6	Screw(M2×5)	EBA1028	51	Frame Unit	EXA1476
7	Screw(M2×2.5)	EBA1037	52	Lever Unit	EXA1425
8	Spring	EBH1531	53	Head Assy(HD1)	EXA1481
9	Spring	EBH1589	54	Motor Unit(M1)	EXA1497
10	Cushion	ENM1034	55	Washer	HBF-179
11	Spring	EBH1515	56	Screw	BMZ20P022FMC
12	Spring	EBH1587	57	Resistor(R1)	RD1/4HM181J
13	Spring	EBH1517	58	Washer	YE20FUC
14	Spring	EBH1547	59	Connector(CN251)	CKS1711
15	Spring	EBH1519	60	Connector(CN252)	CKS2127
16	Spring	EBH1537	61	Connector(CN253)	CKS2129
17	Cord	EDD1015	62	.....	
18	Photo-reflector(EGN2, 3)	EGN1004	63	Spring	EBH1545
19	Photo-Interrupter(EGN1)	EGN1005	64	Switch(S2)	ESG1004
20	Roller	ENR1031	65	Roller	ENR1023
21	Shaft	ELA1362	66	Cover	ENC1412
22	Roller	ELA1348	67	Cover	ENC1413
23	Arm	ENC1416	68	Spring	EBH1546
24	Arm	ENC1397	69	Washer	EBE1008
25	Guide	ENC1398	70	Washer	YE15FUC
26	Holder	ENC1417	71	Lever Unit	EXA1424
27	Lever	ENC1449	72	Spring	EBL1026
28	Arm	ENC1401	73	Screw(M2×2)	CBA1250
29	Roller	ENR1027	74	Capacitor(C1)	CEA4R7M35LS2
30	Belt	ENT1027	75	Bracket	ENC1472
31	Gear	ENV1347	76	Inductor(L1)	ETH0001
32	Collar	ENV1508	77	Cushion	ENM1036
33	Gear	ENV1350			
34	Flywheel	ENV1410			
35	Worm Gear	ENV1439			
36	Worm Wheel	ENV1440			
37	Gear	ENR1028			
38	Lever	ENV1455			
39	Arm	ENV1445			
40	Gathering PCB	ENX1029			
41	Gathering PCB	ENX1041			
42	Switch(S1)	ESG1004			
43	Motor Unit(M2)	EXA1485			
44	Chassis Unit	EXA1494			
45	Pinch Roller Unit	EXA1472			

### 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

#### 3.1 BLOCK DIAGRAM (KEX-M8196ZT/UC)



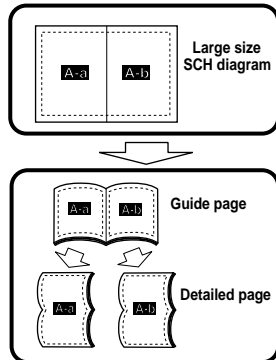
## D



## 3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts,be sure to refer to "EXPLODED VIEWS AND PARTS LIST"or"ELECTRICAL PARTS LIST".

A

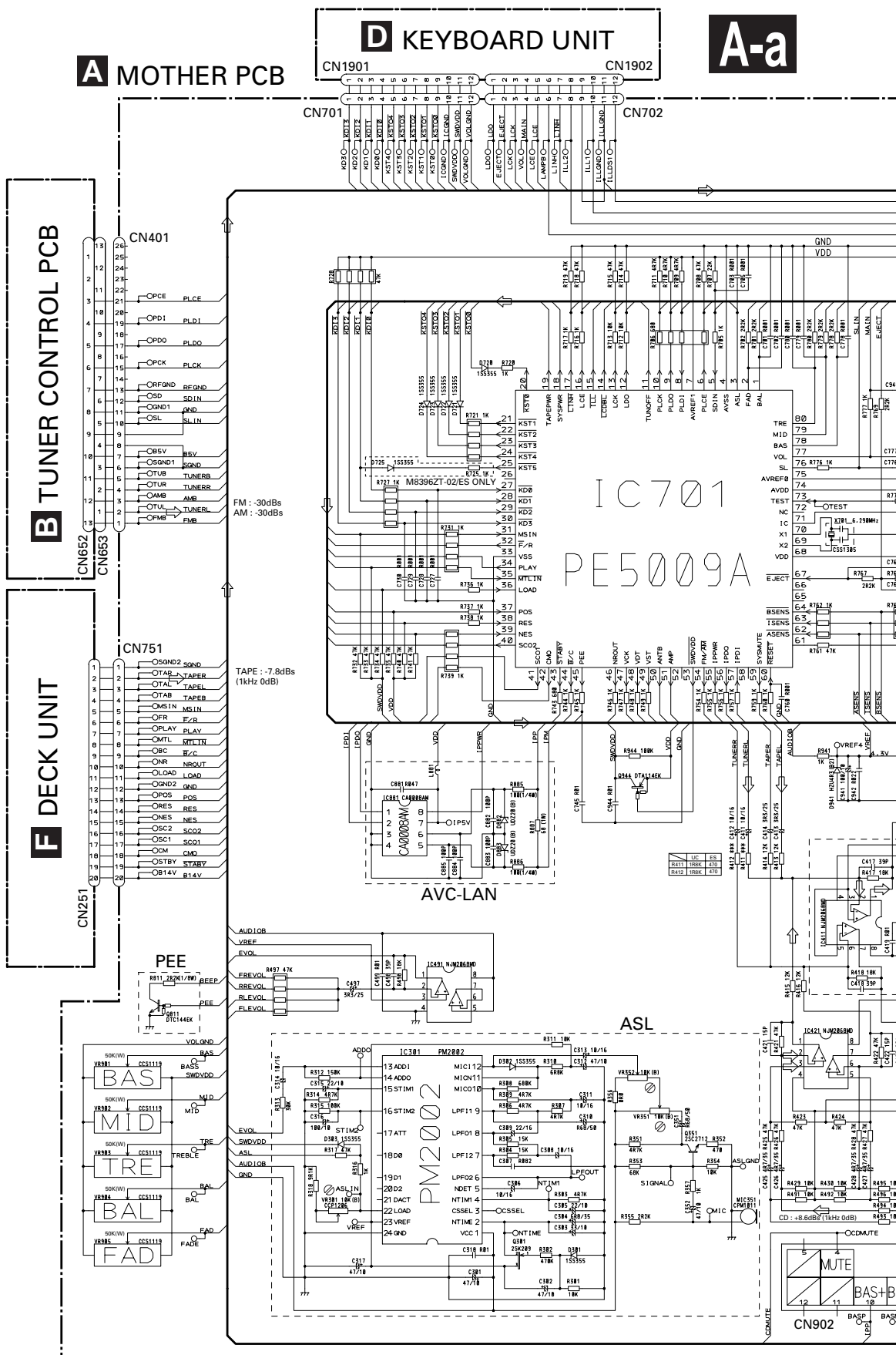


B

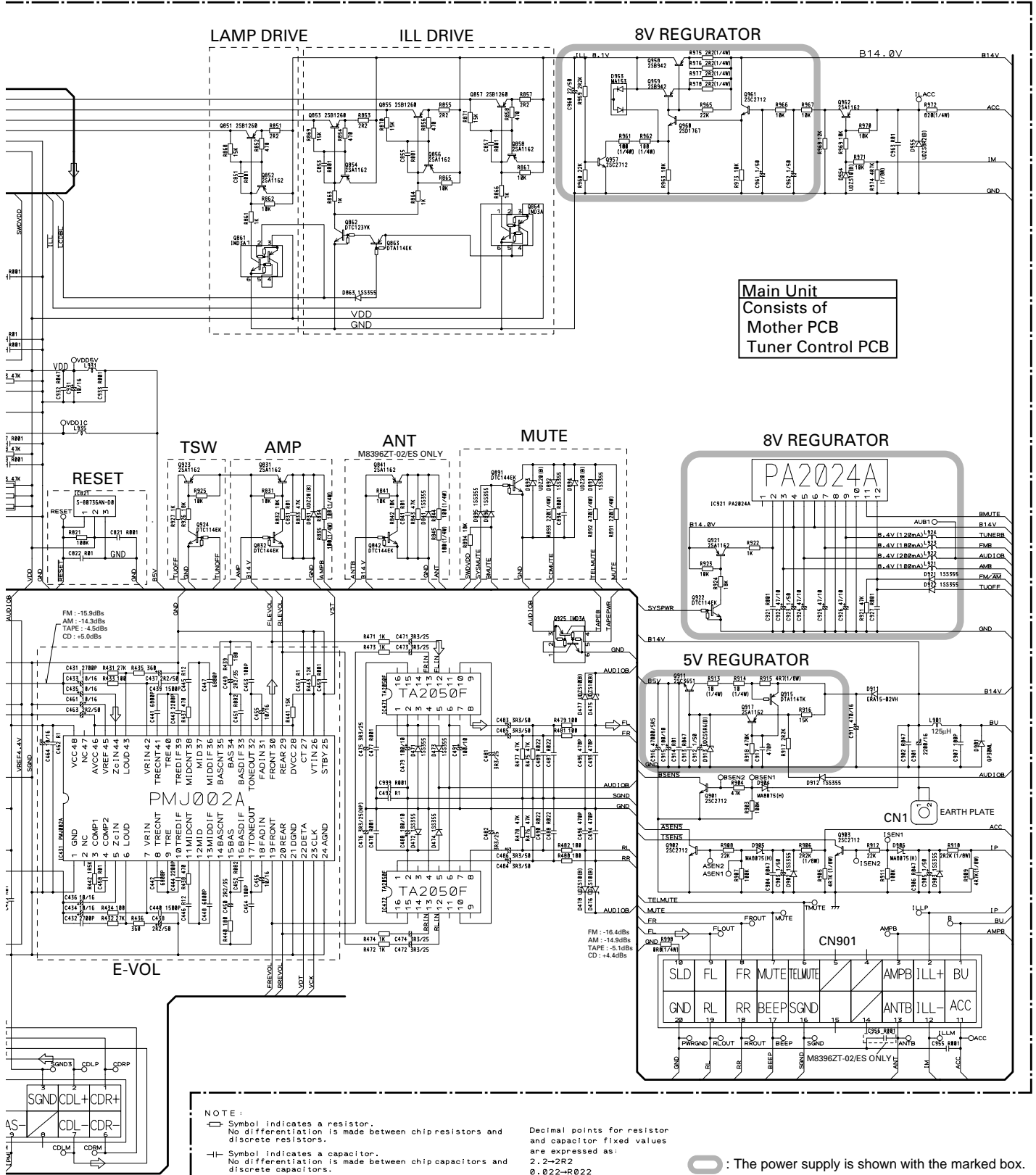
C

D

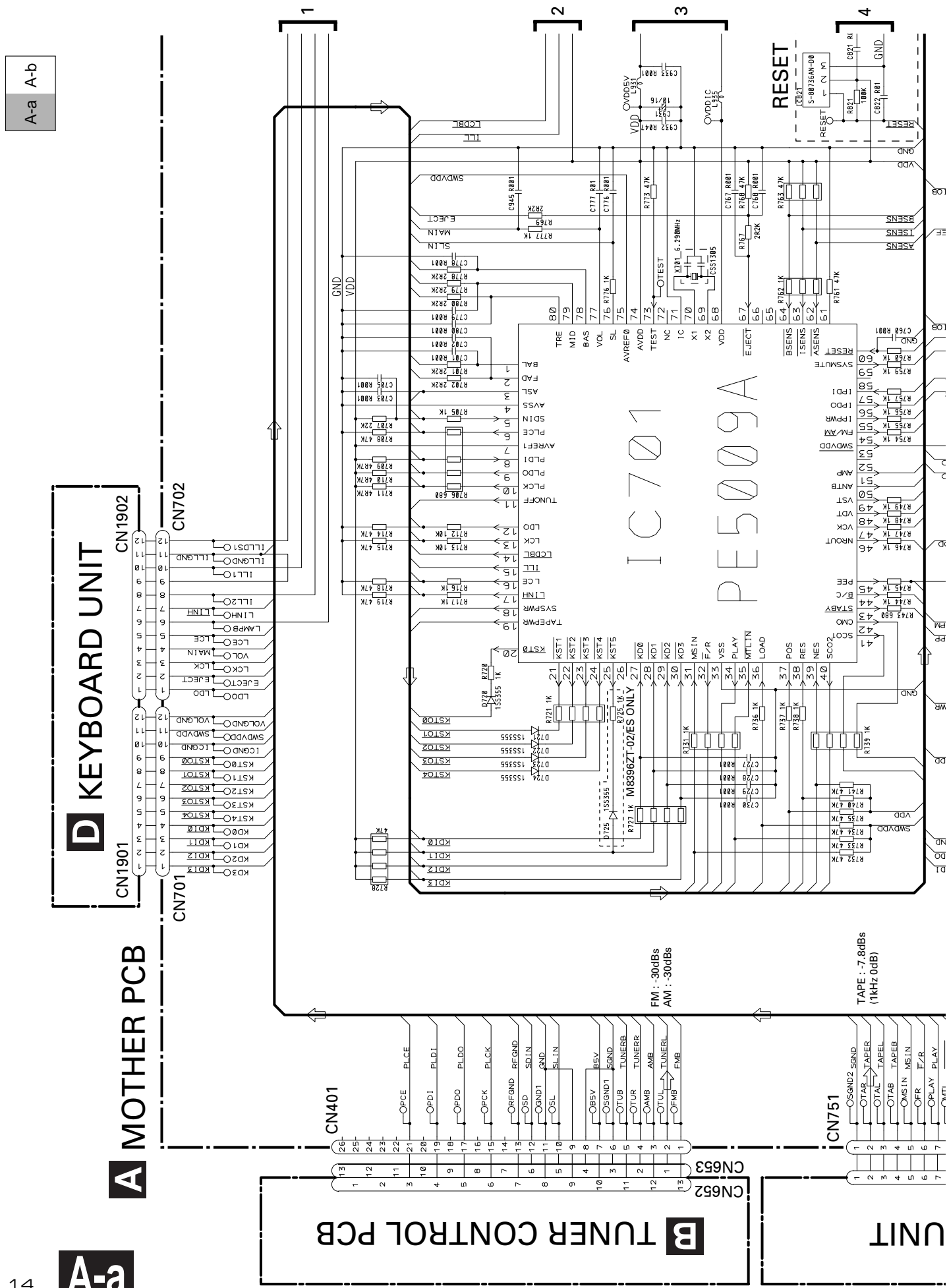
### A MOTHER PCB



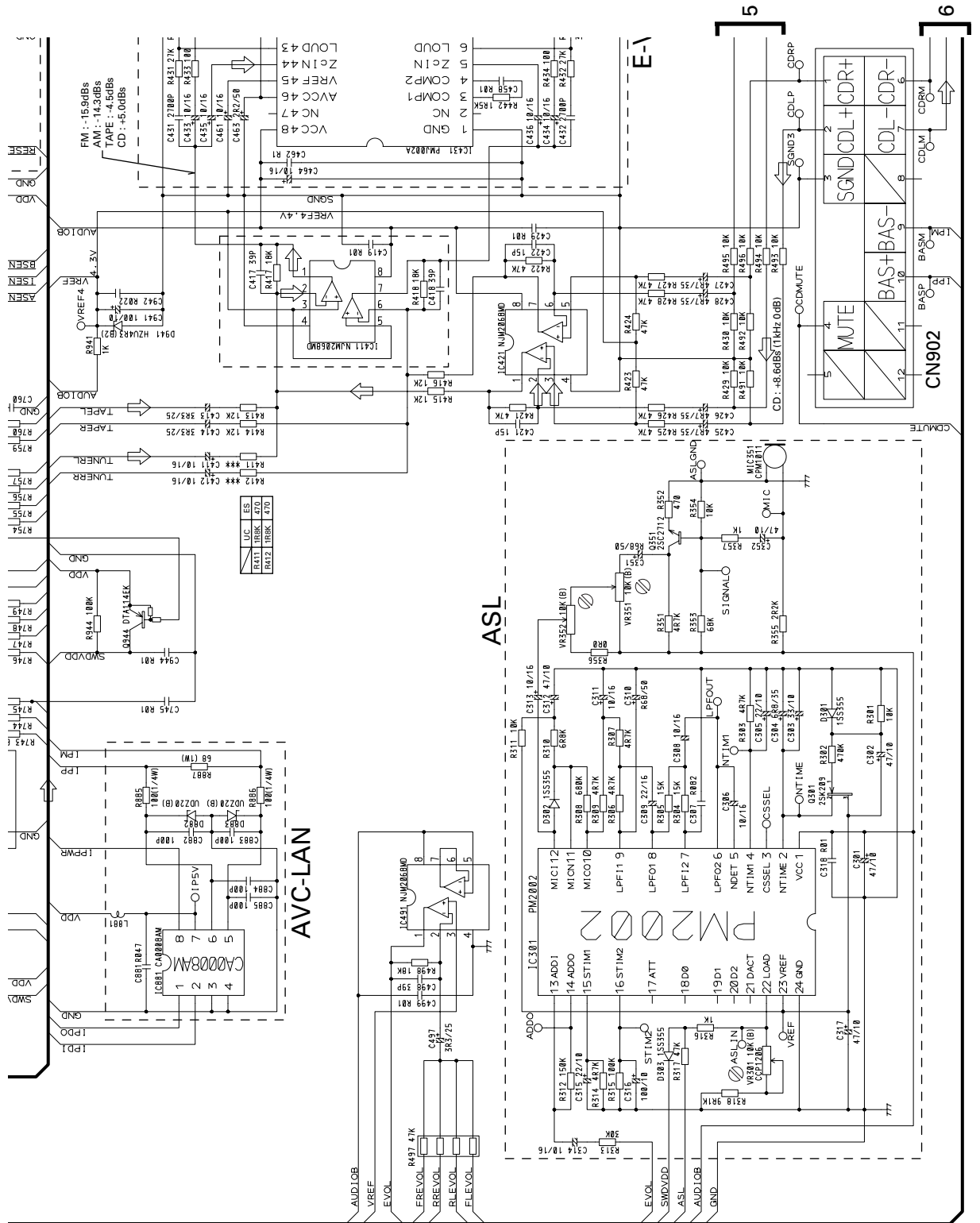
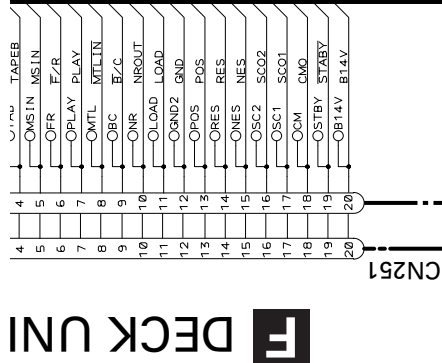
A-b



A



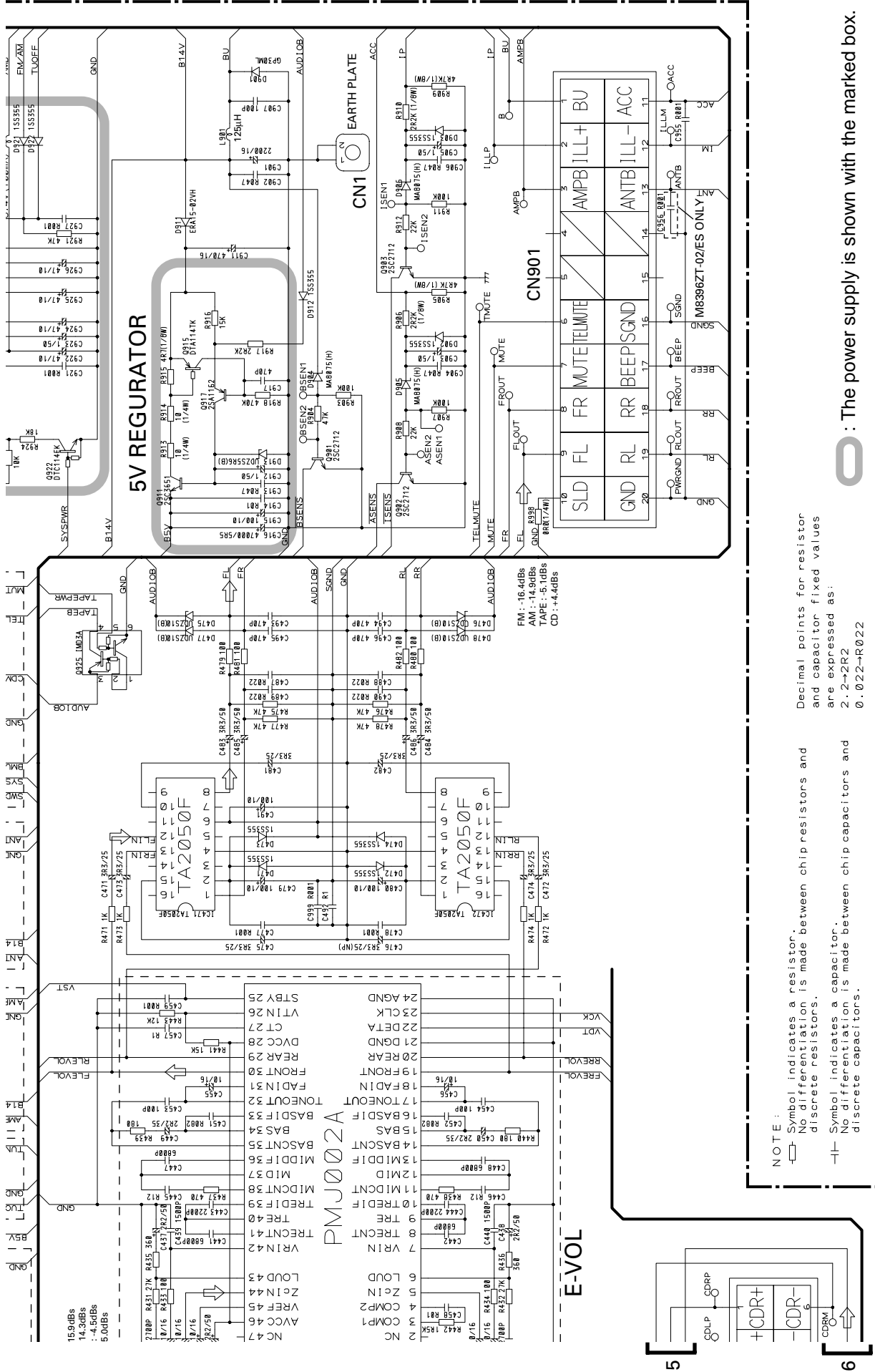




**A-a**

A-a A-b

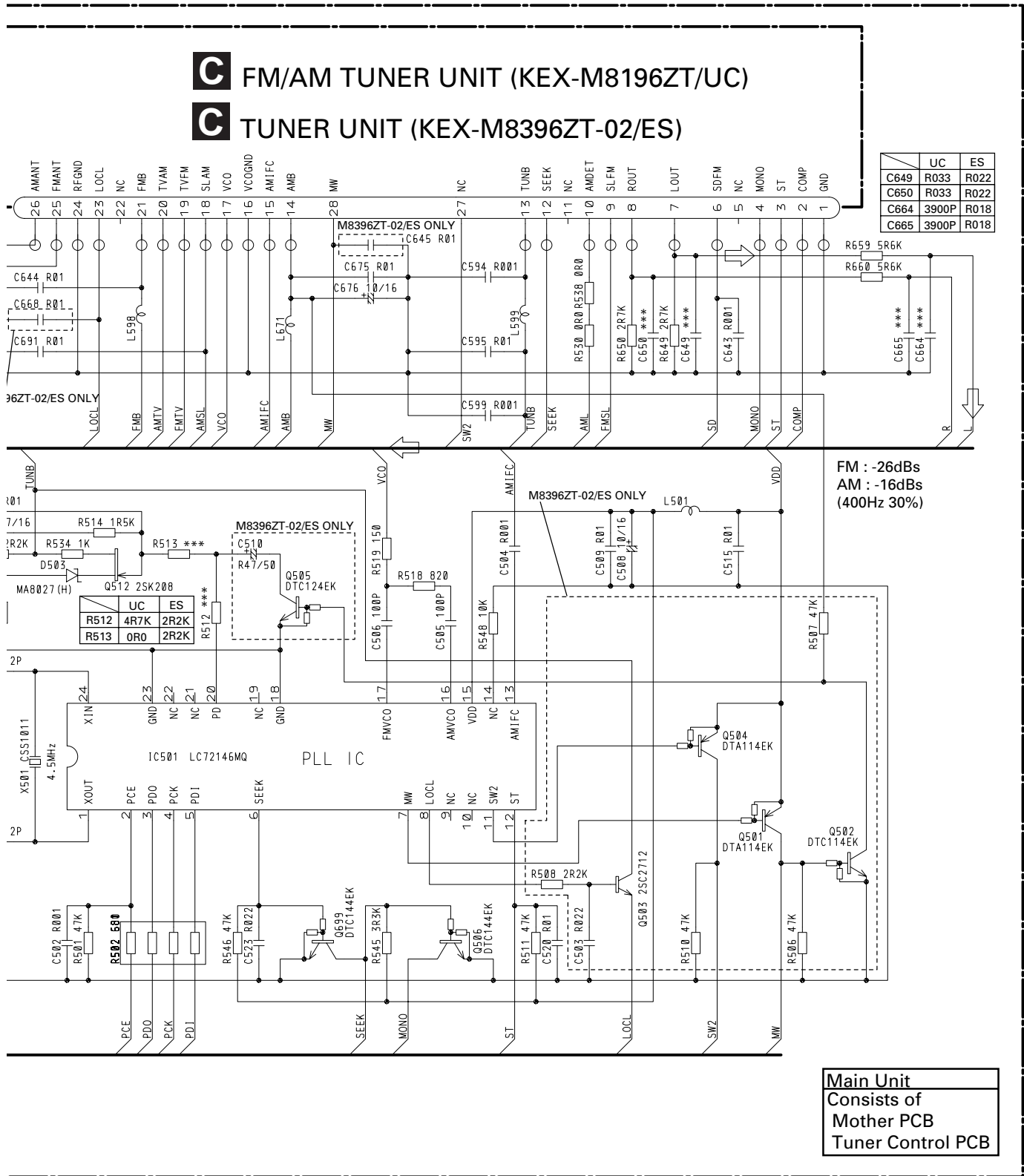




A-b

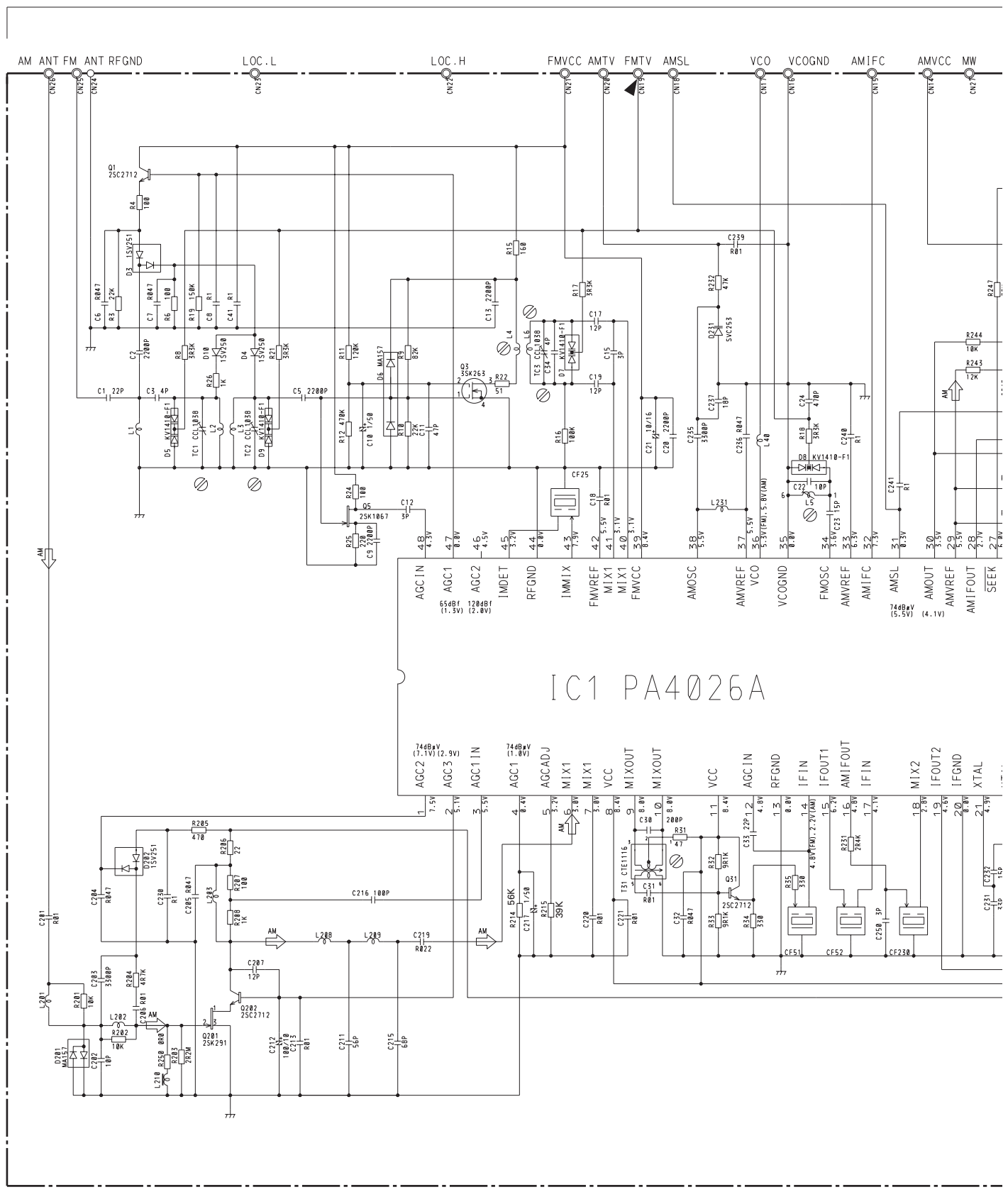
A-a A-b

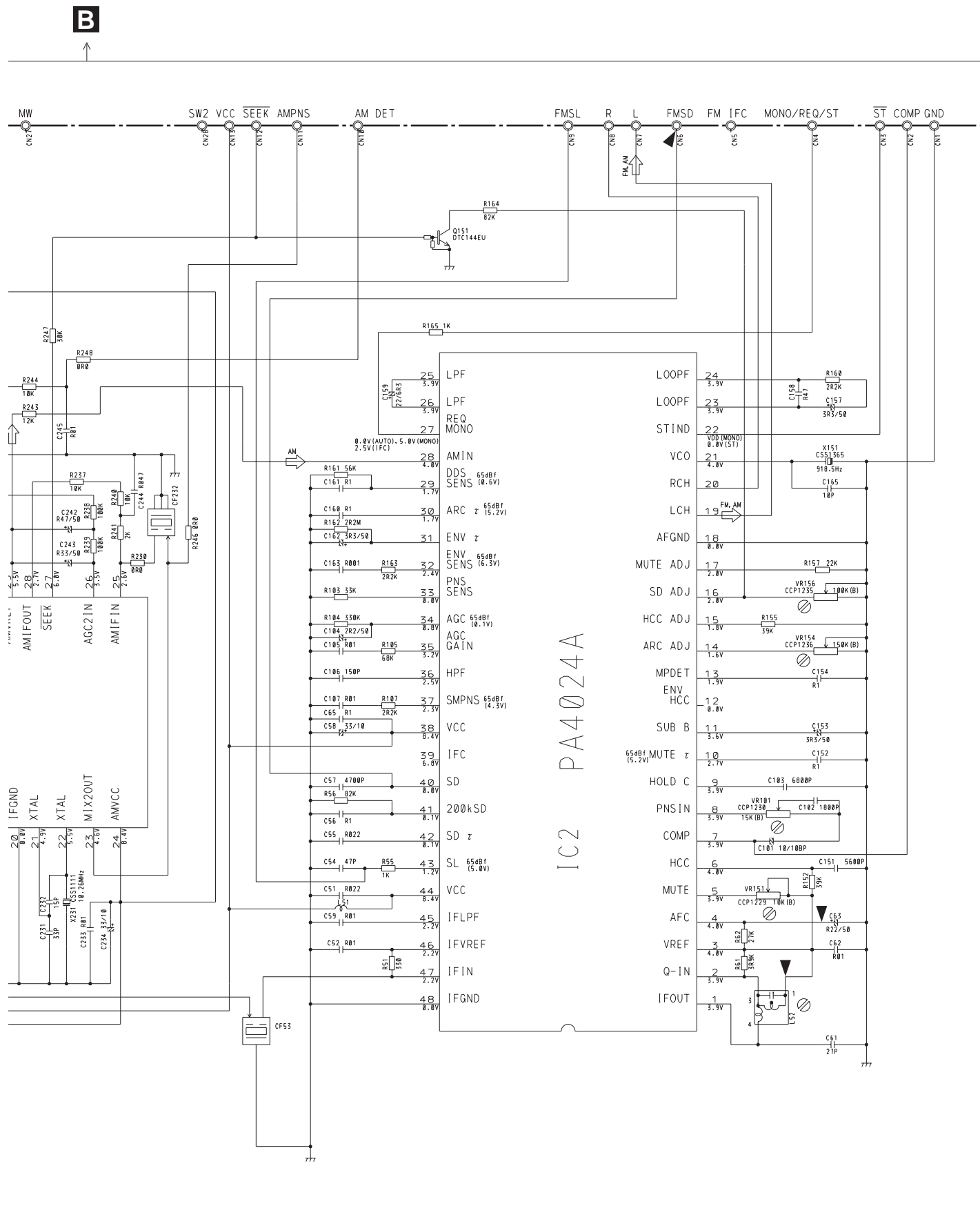




### 3.4 FM/AM TUNER UNIT (KEX-M8196ZT/UC)

## C FM/AM TUNER UNIT

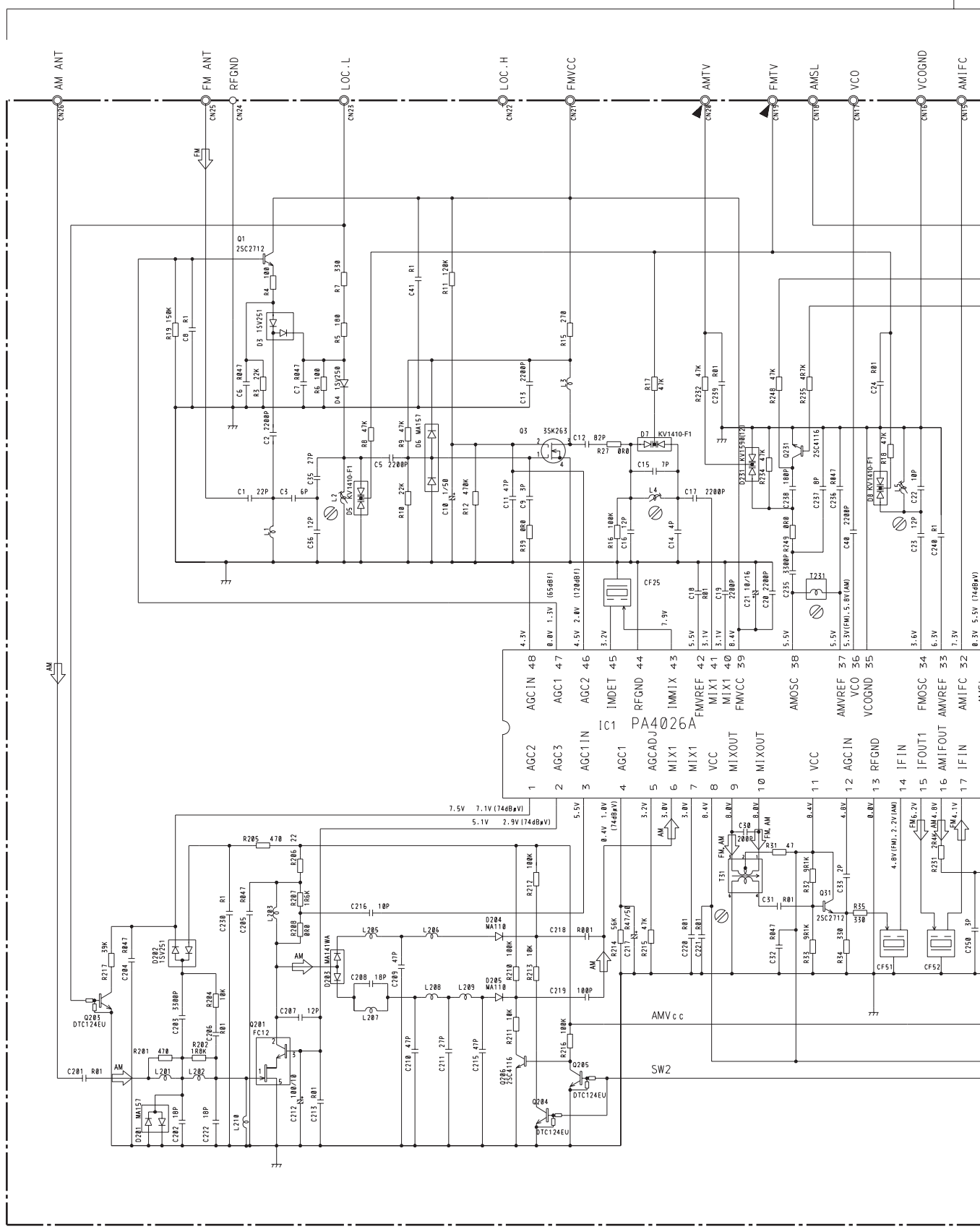




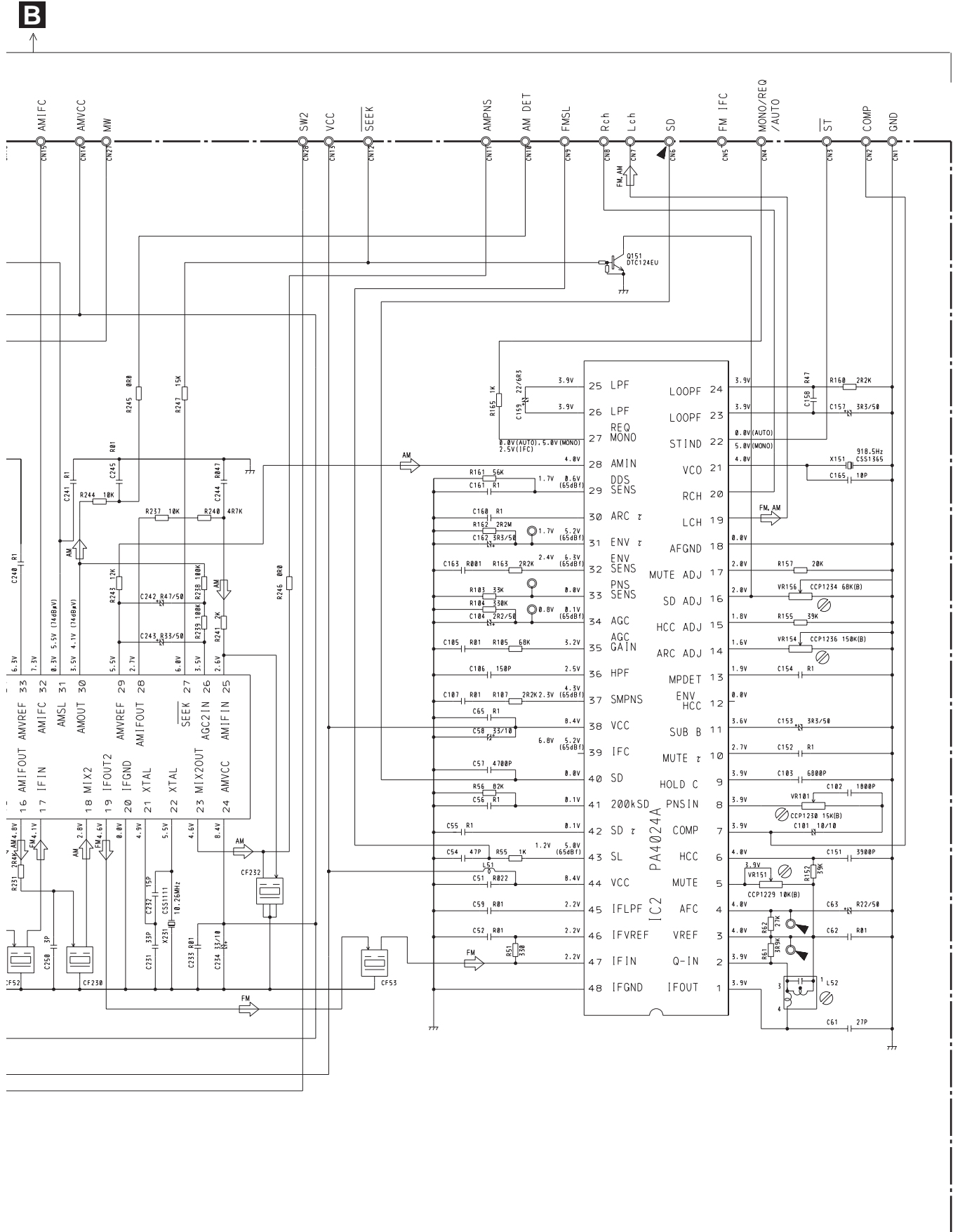
3.5 TUNER UNIT (KEX-M8396ZT-02/ES)

**C** TUNER UNIT

**B**

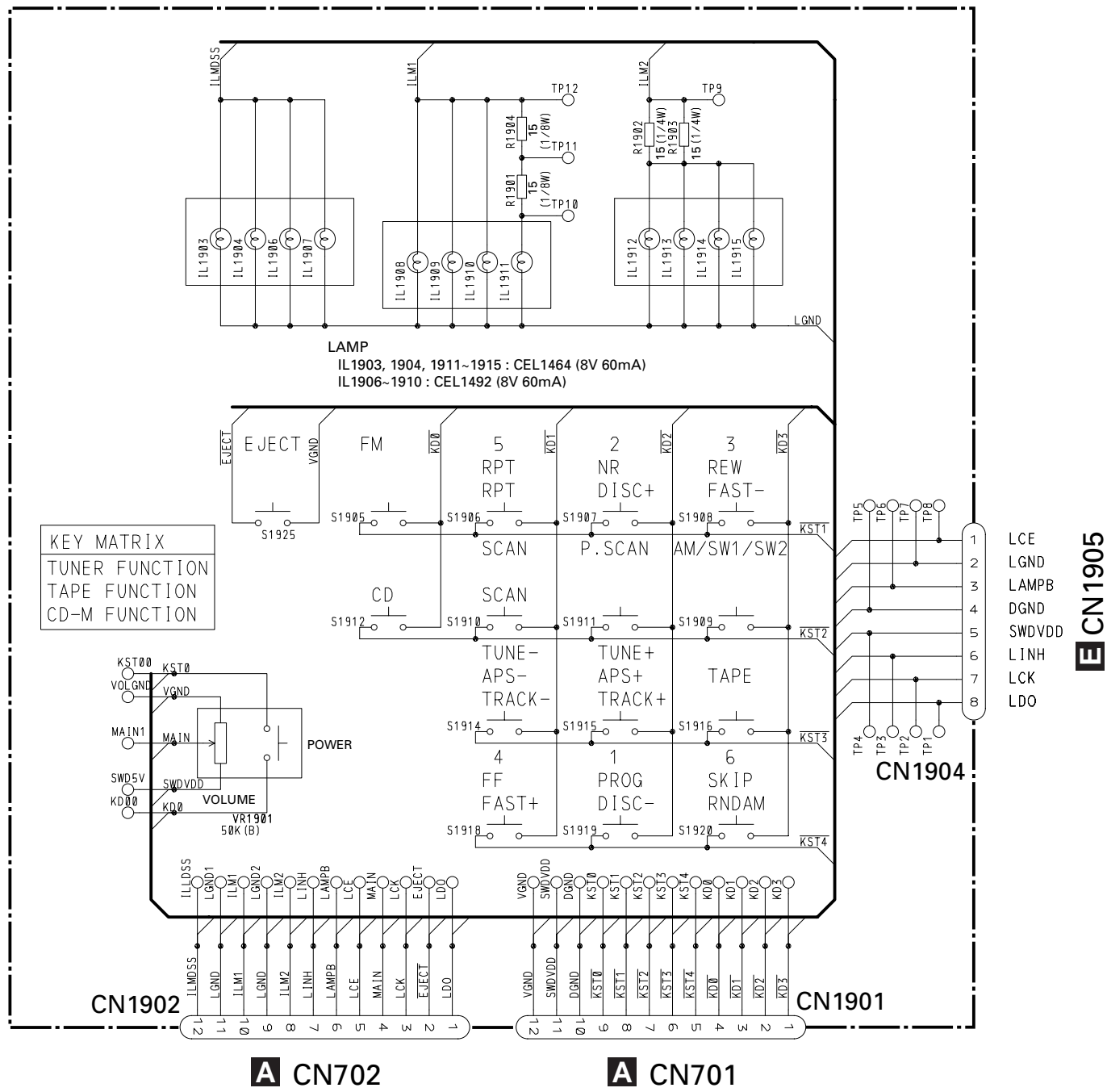




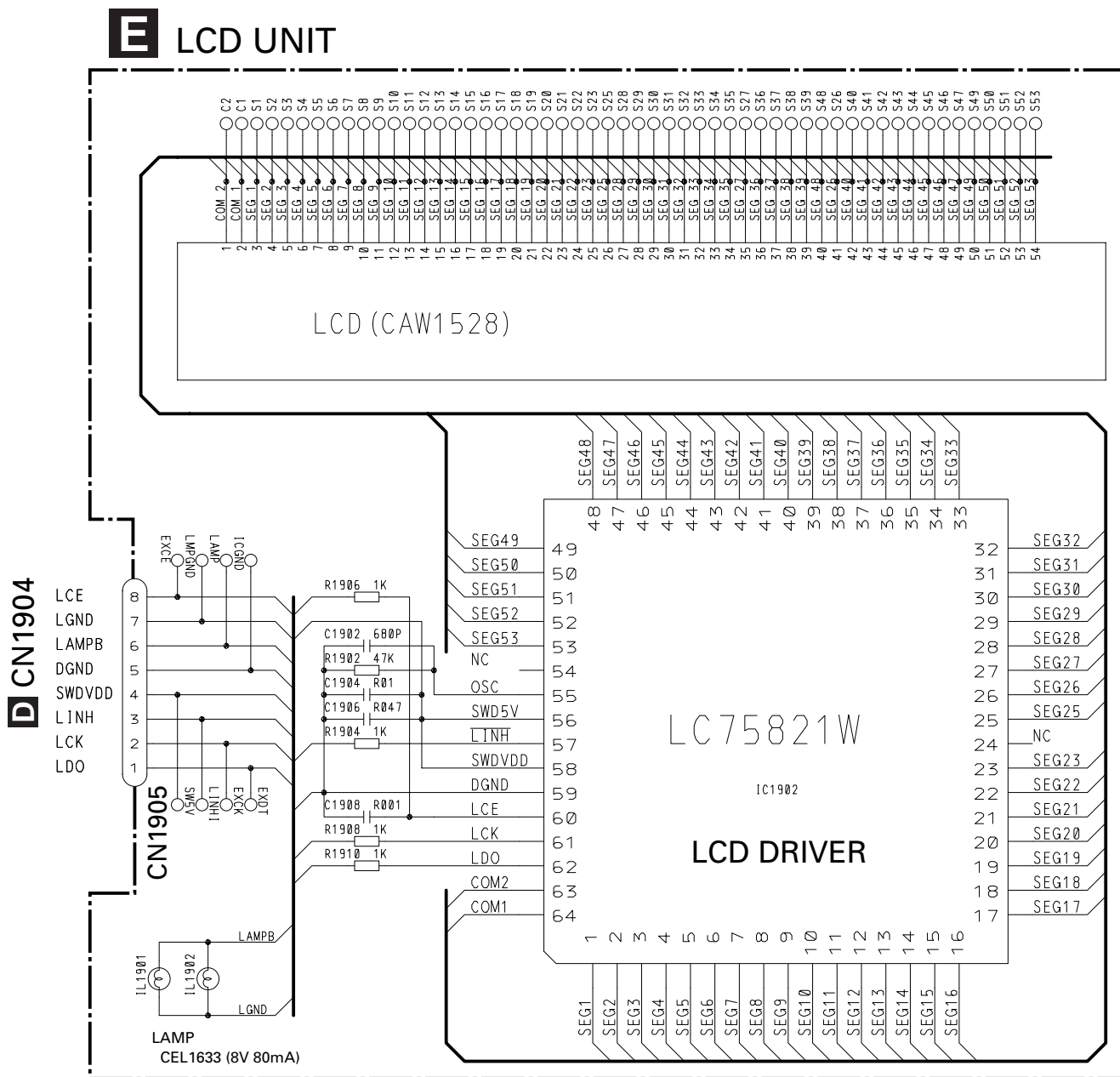


3.6 KEYBOARD UNIT

D KEYBOARD UNIT

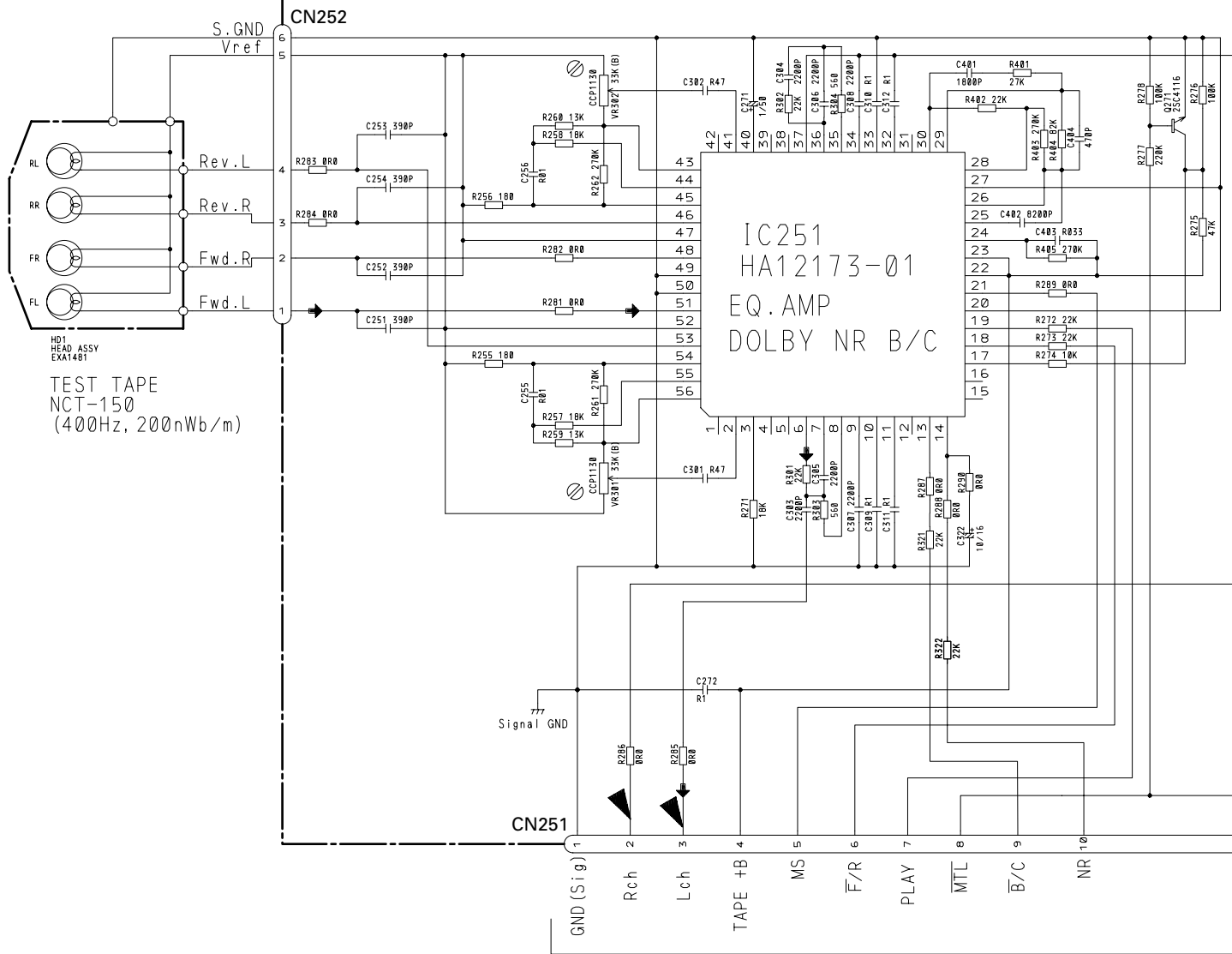


### 3.7 LCD UNIT



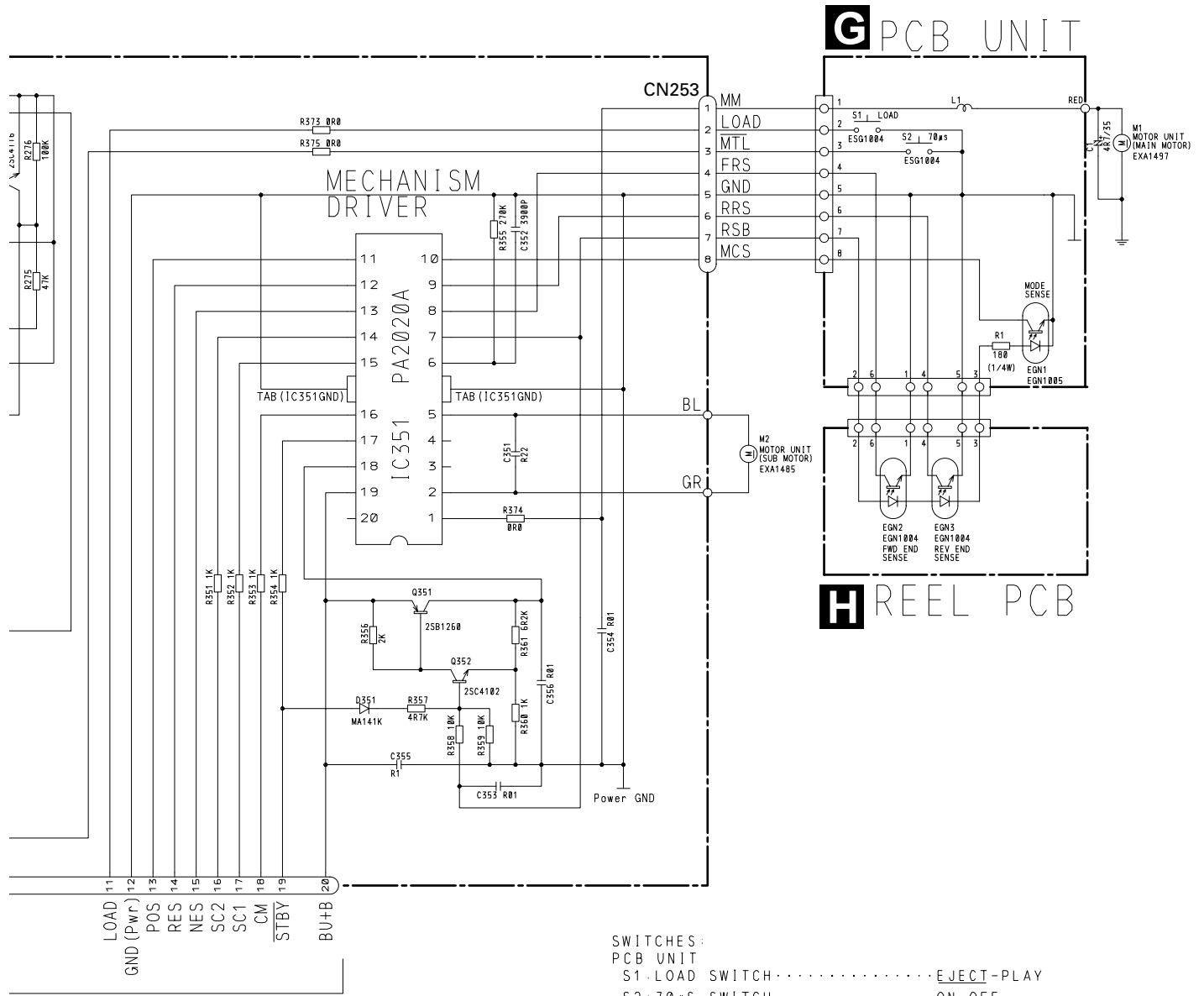
### 3.8 CASSETTE MECHANISM MODULE

# F DECK UNIT



-8.24 dBs (300mV)  $\pm 1$  dB

**A** CN751



## 4. PCB CONNECTION DIAGRAM

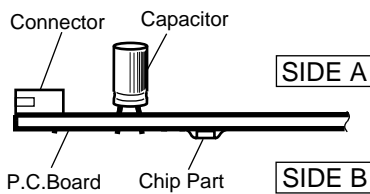
### 4.1 MAIN UNIT

**A** MOTHER PCB

#### A NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.  
For further information for respective destinations, be sure to check with the schematic diagram.

#### 2. Viewpoint of PCB diagrams



IC, Q ADJ

Q958 Q841  
Q959

IC921

VR351  
VR352

Q301

IC301  
Q351

VR301

Q960 Q891  
Q831

IC471  
Q961 IC472  
IC421

Q957  
Q832 Q811

Q962

IC411

Q924 IC821

IC881 Q923

Q944 IC491

Q922 Q921

Q842

IC431

Q917

Q915

Q856 Q854 Q911

Q861 IC701

Q853

Q855 Q901

Q864

Q903 Q925

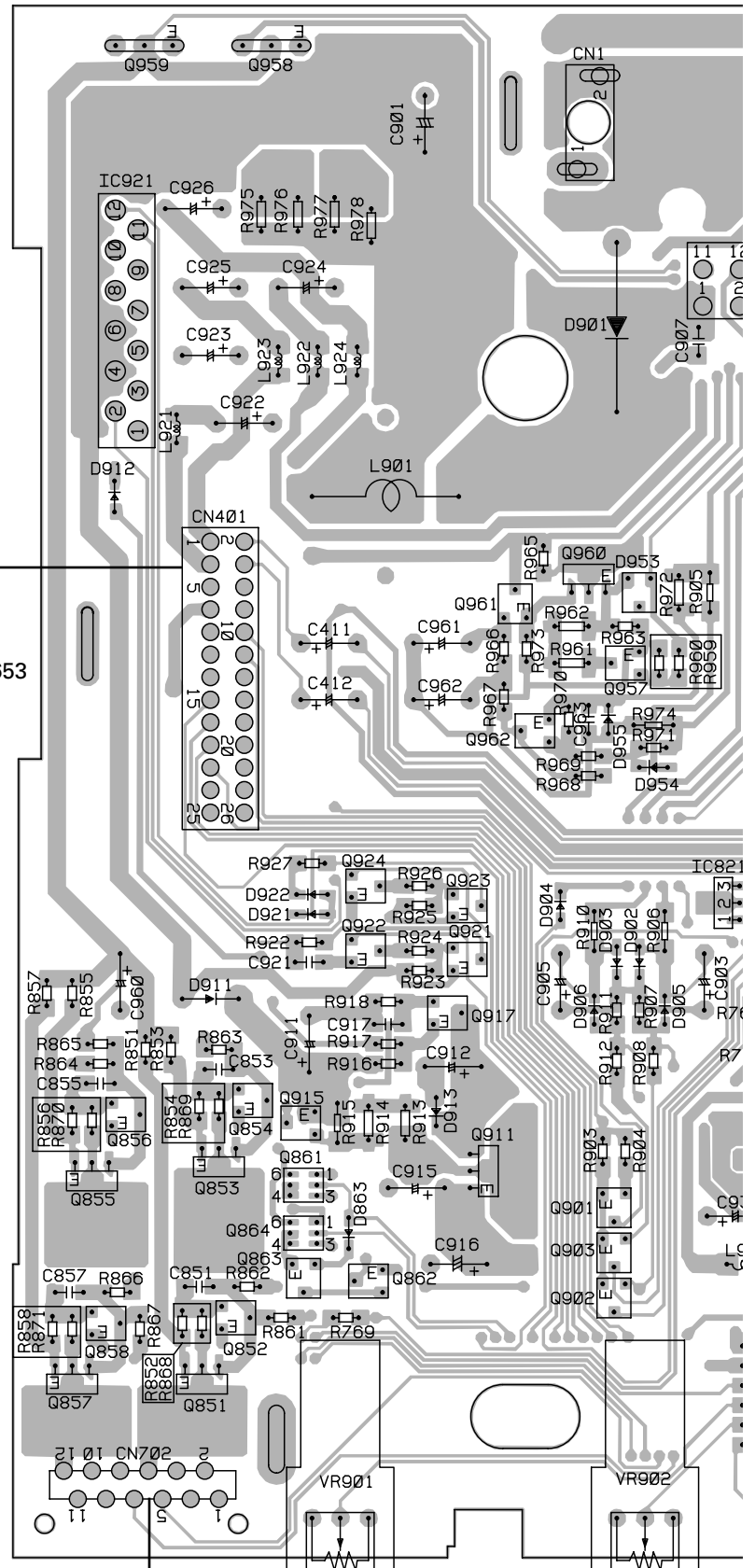
Q863 Q862

Q902

Q858 Q852

Q857 Q851

VR901  
VR902  
VR903  
VR904  
VR905

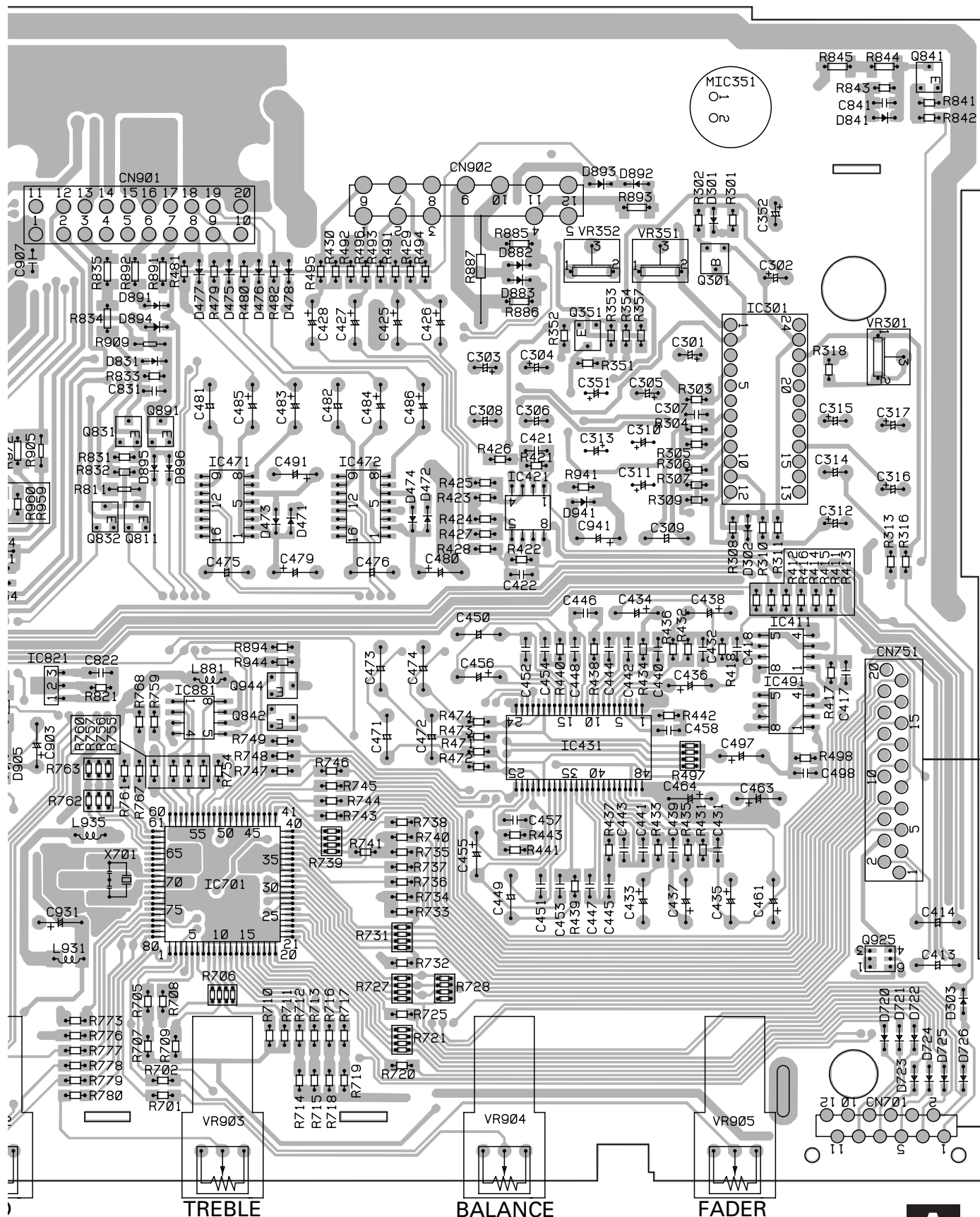


**D** CN1902

BASS

MID

SIDE A

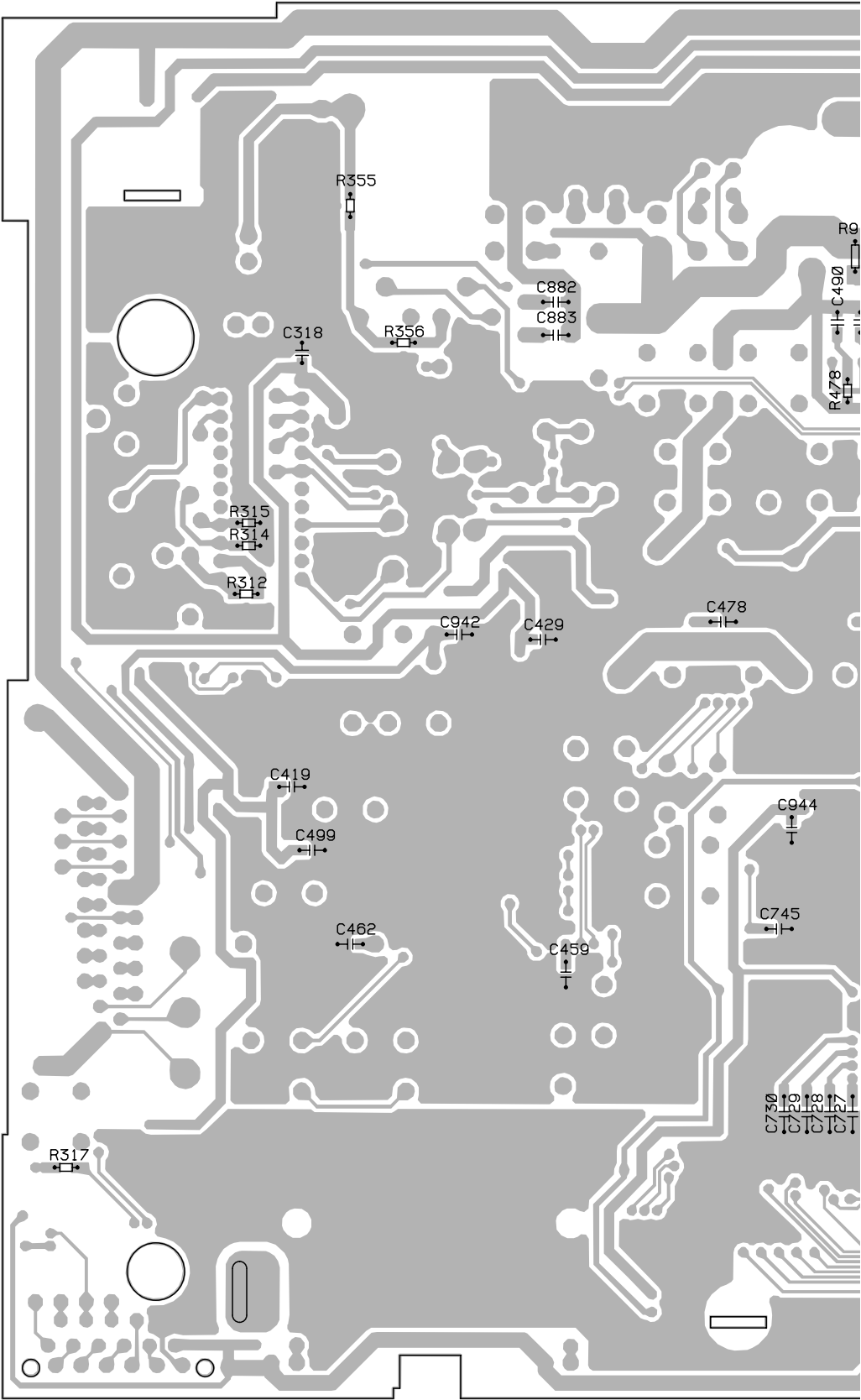


F CN251

D CN1901

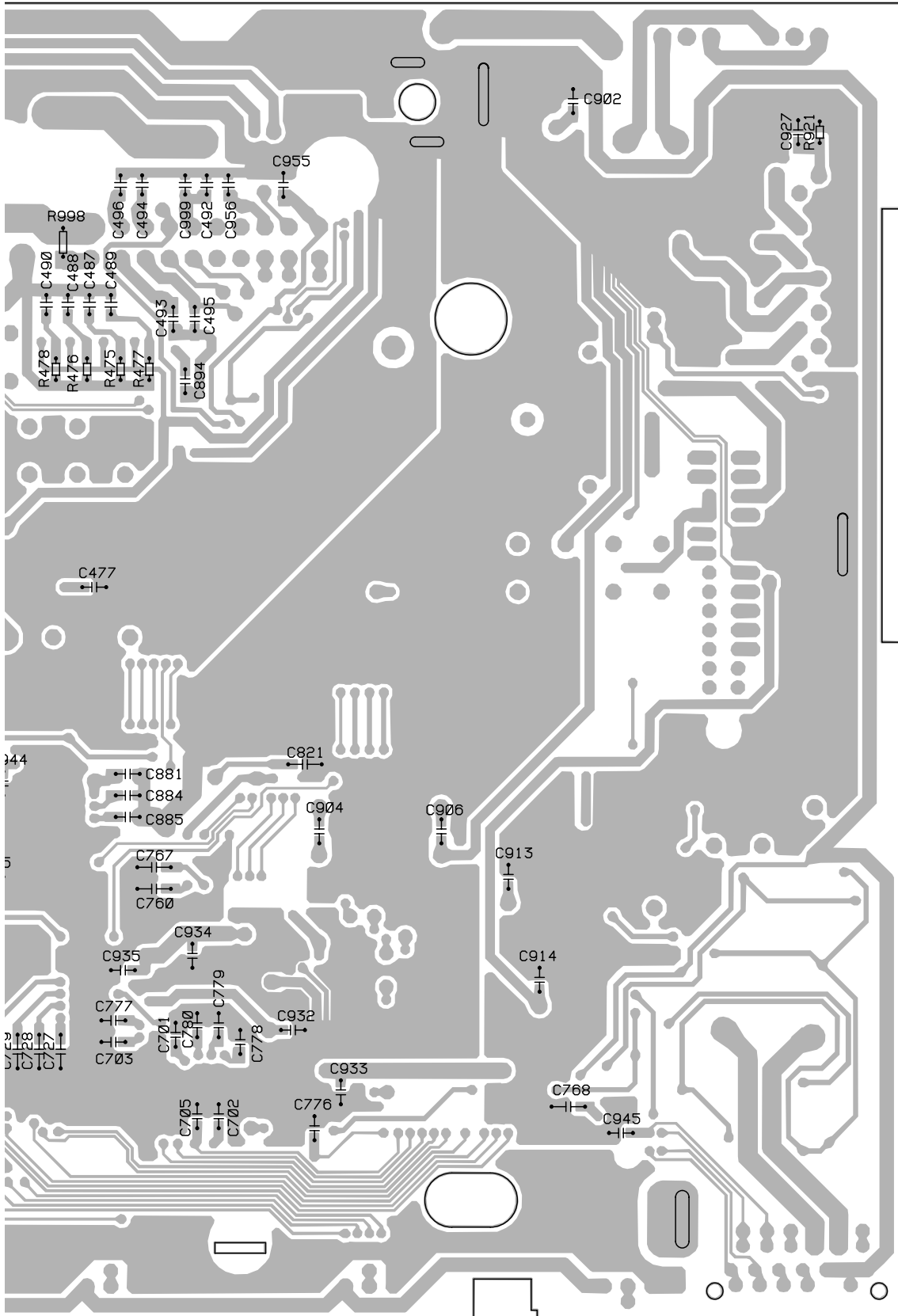
A

**A** MOTHER PCB





SIDE B



A

B

C

D

IC, Q     ADJ

**B** TUNER CONTROL PCB

VR530  
VR531

Q684 IC680  
Q683  
Q680 IC525 IC526  
Q688 Q681  
Q685 Q687  
Q682

IC605

IC601

Q651

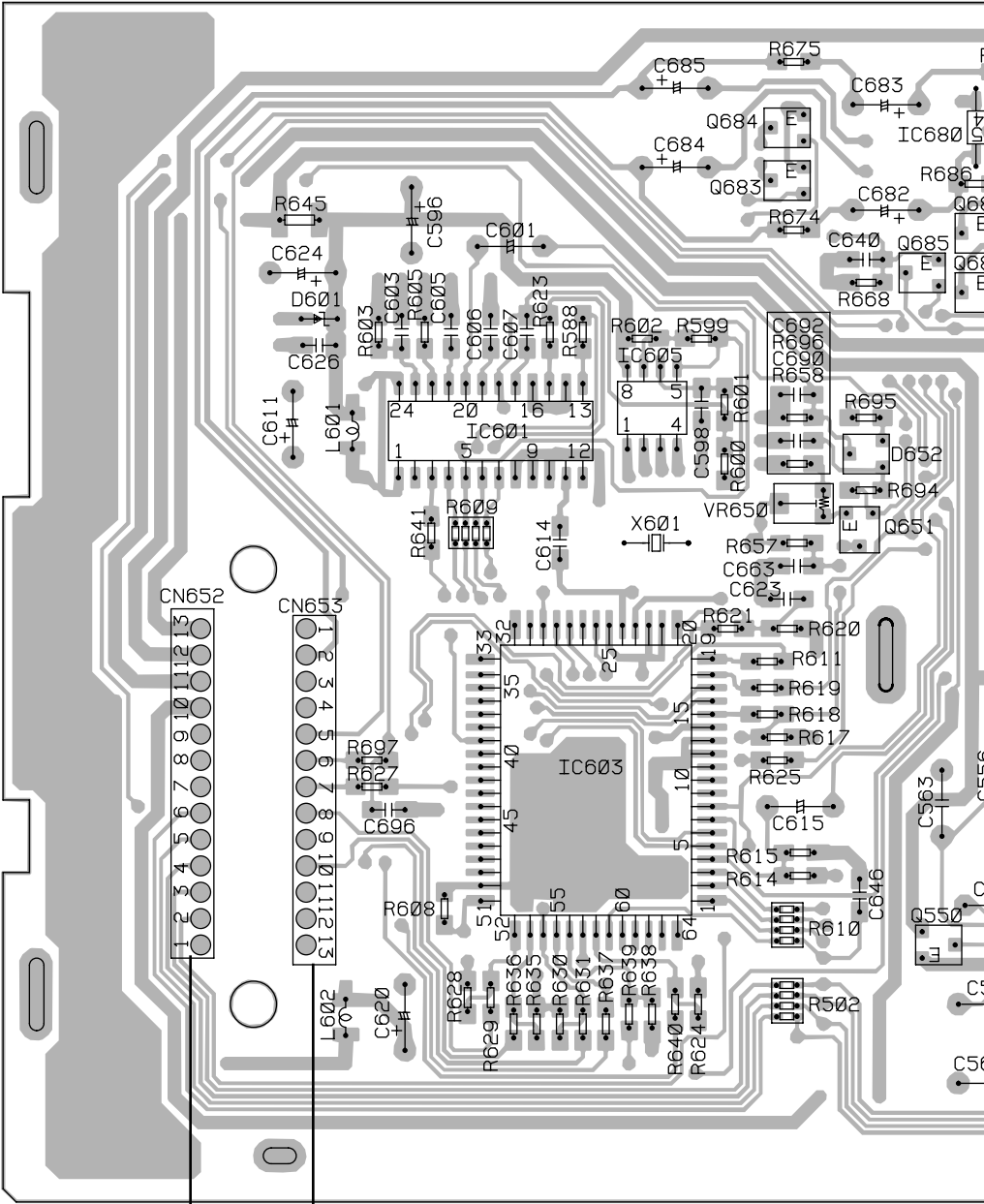
VR650

Q503 Q505  
IC603

Q504 IC502  
Q501 Q502 Q661  
Q512 Q511  
Q550 IC652 Q662

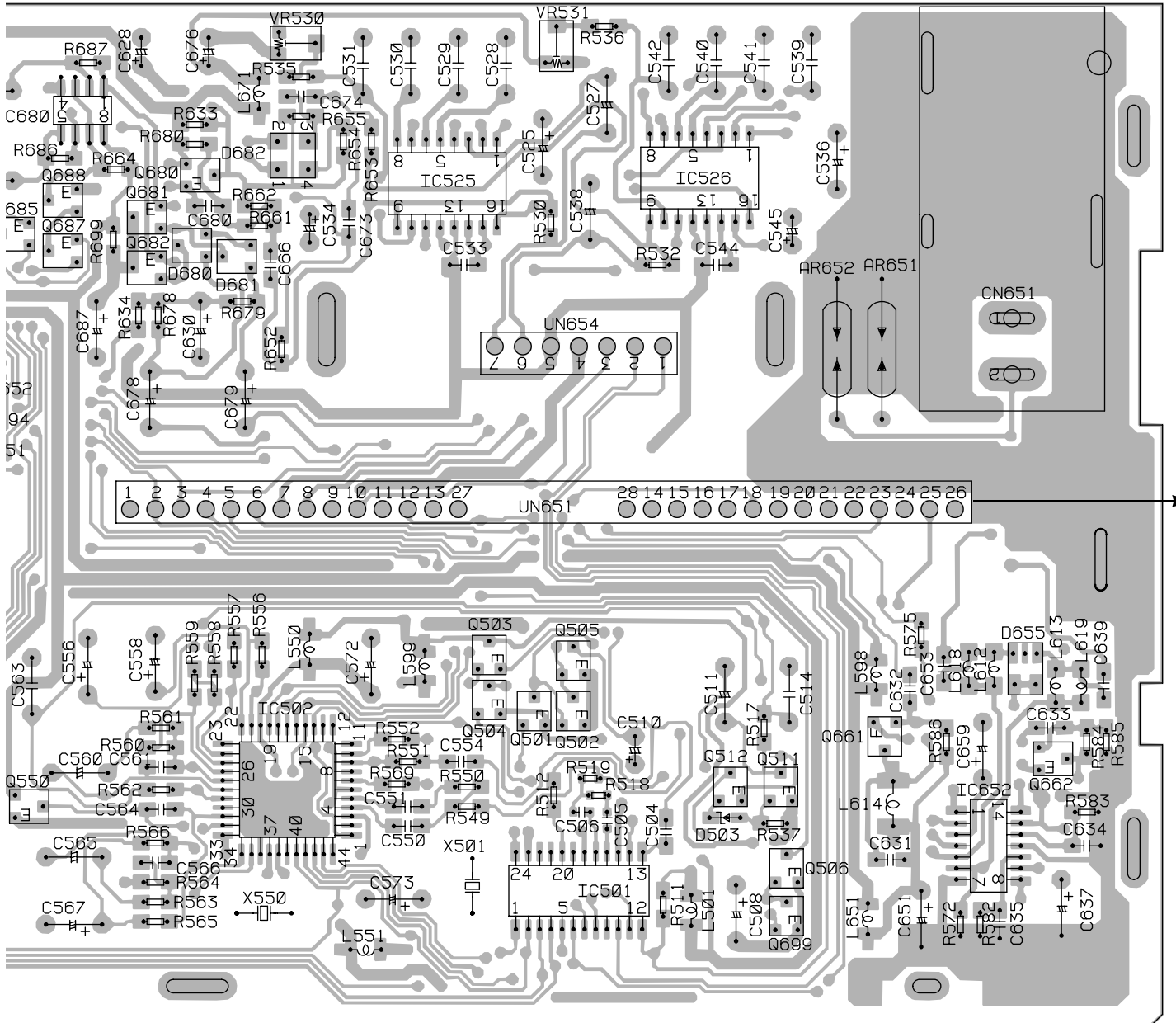
Q506  
IC501

Q699



**A** CN401

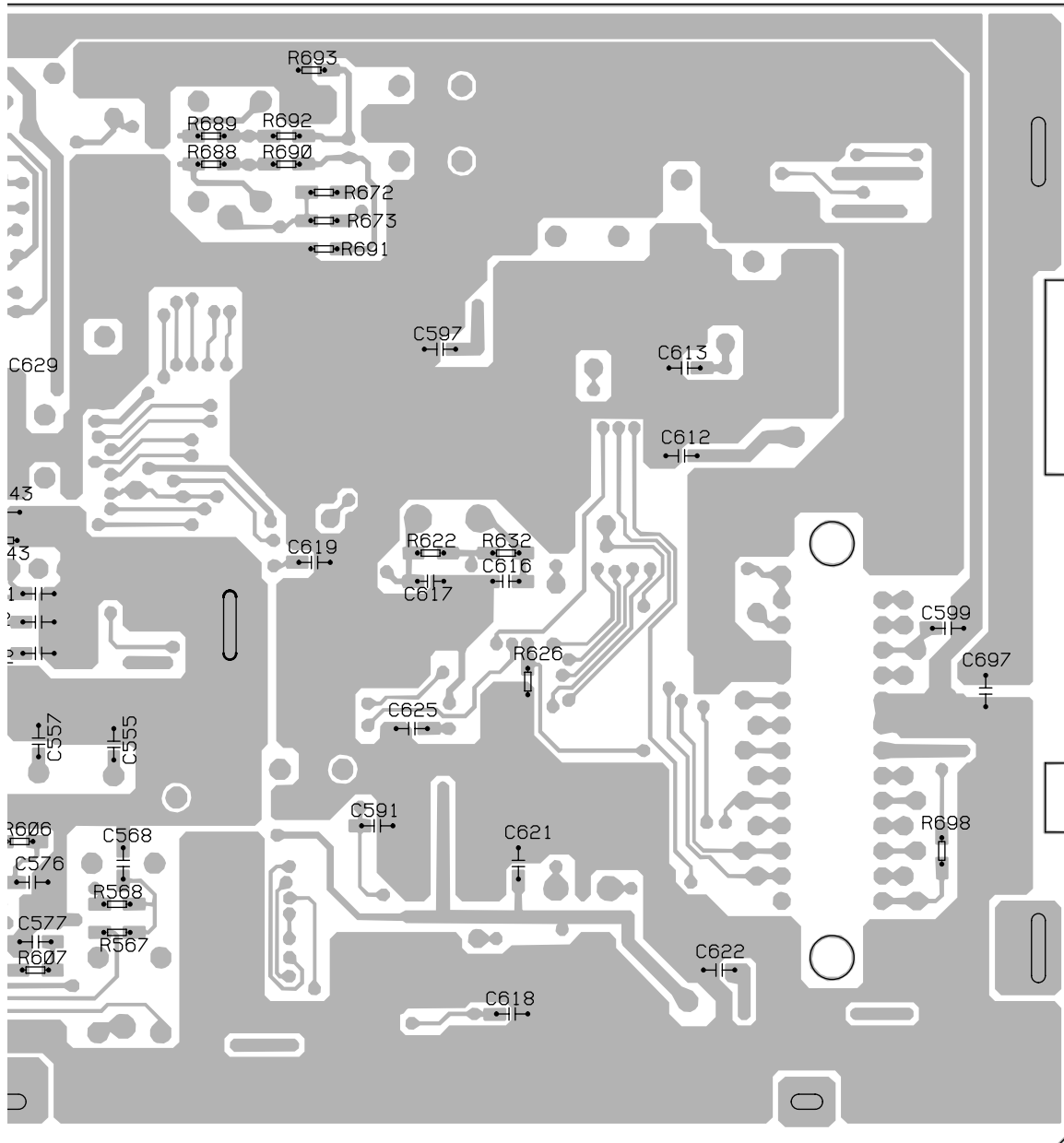
SIDE A



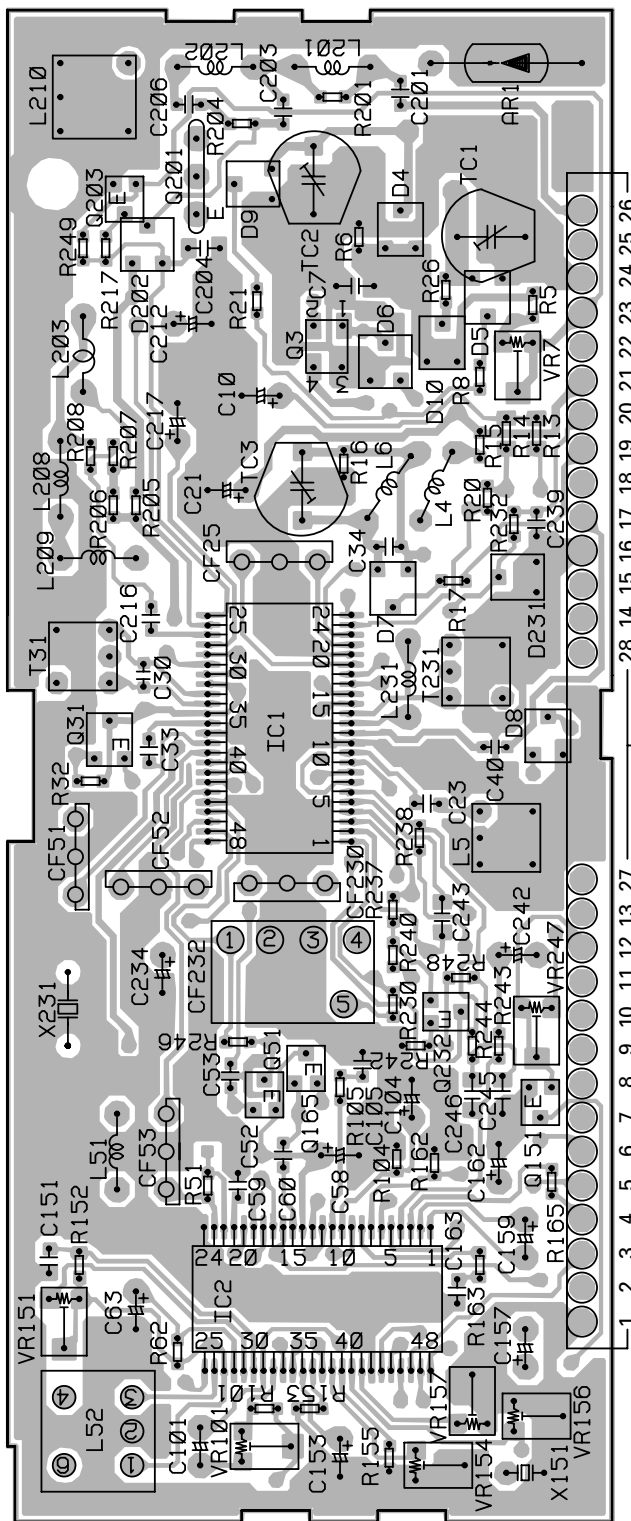
**B**

SIDE B

IC, Q

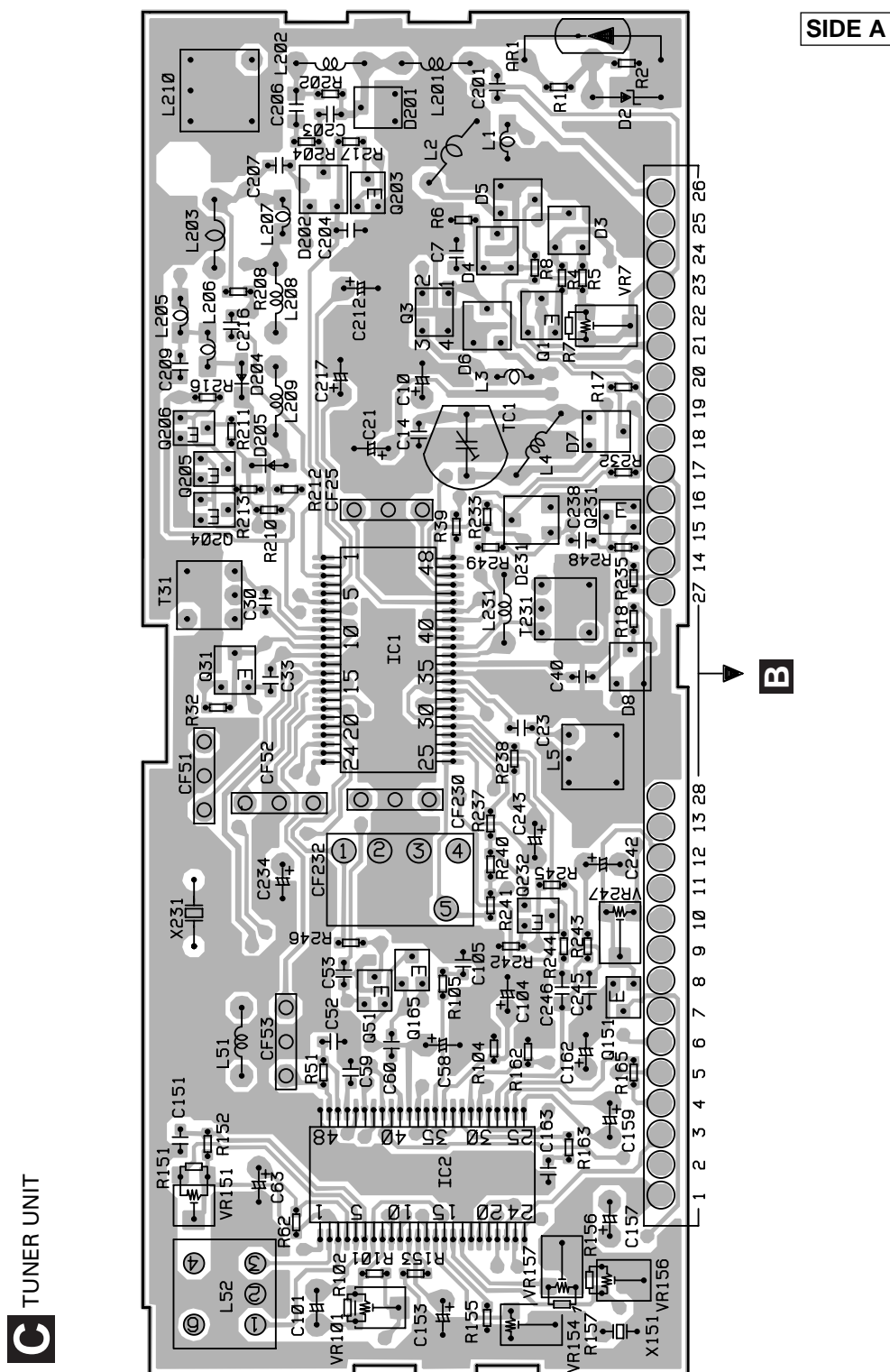


Q525



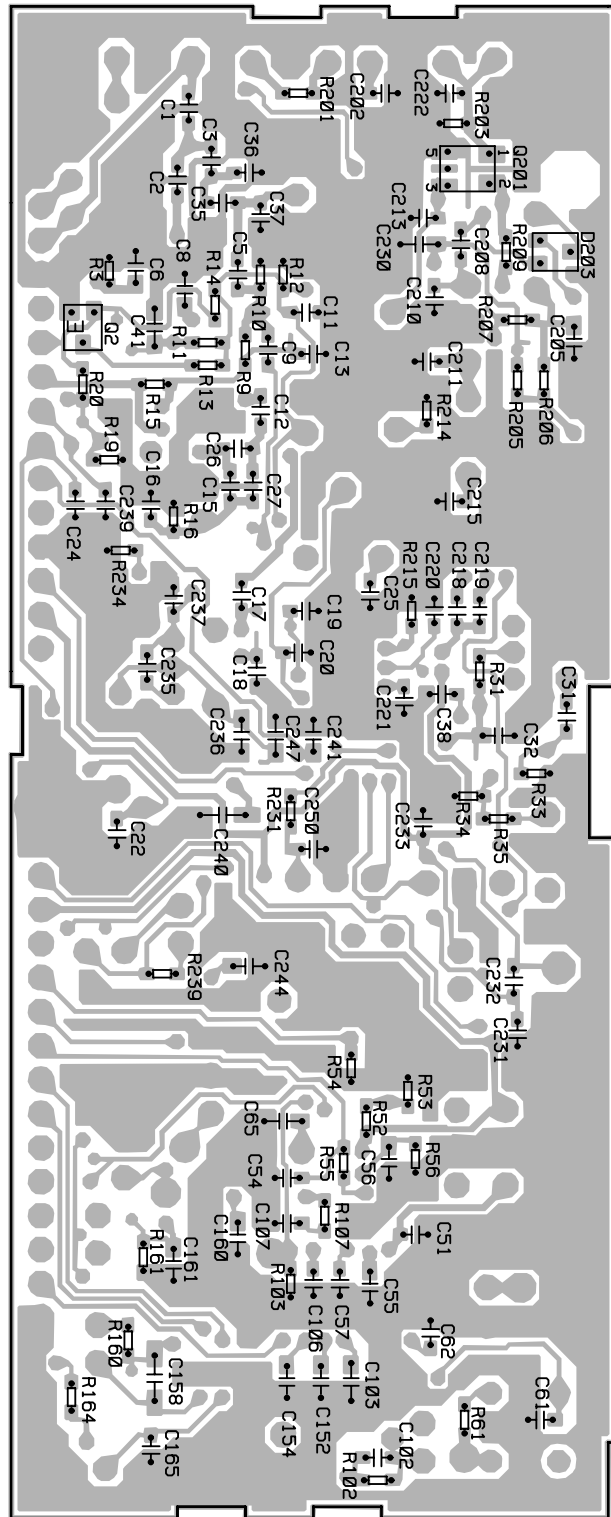


### 4.3 TUNER UNIT (KEX-M8396ZT-02/ES)



Q31	Q206	IC, Q	ADJ
	Q205		T31
	Q204		L52
			VR151
IC1 IC2	Q51 Q203 Q165		VR101
			L2
Q32	Q232	Q232	VR154
	Q1	Q1	L4
	Q231	Q231	L5
	Q151	Q151	T231
			VR156



 TUNER UNIT

25

4.4 KEYBOARD UNIT

SIDE A

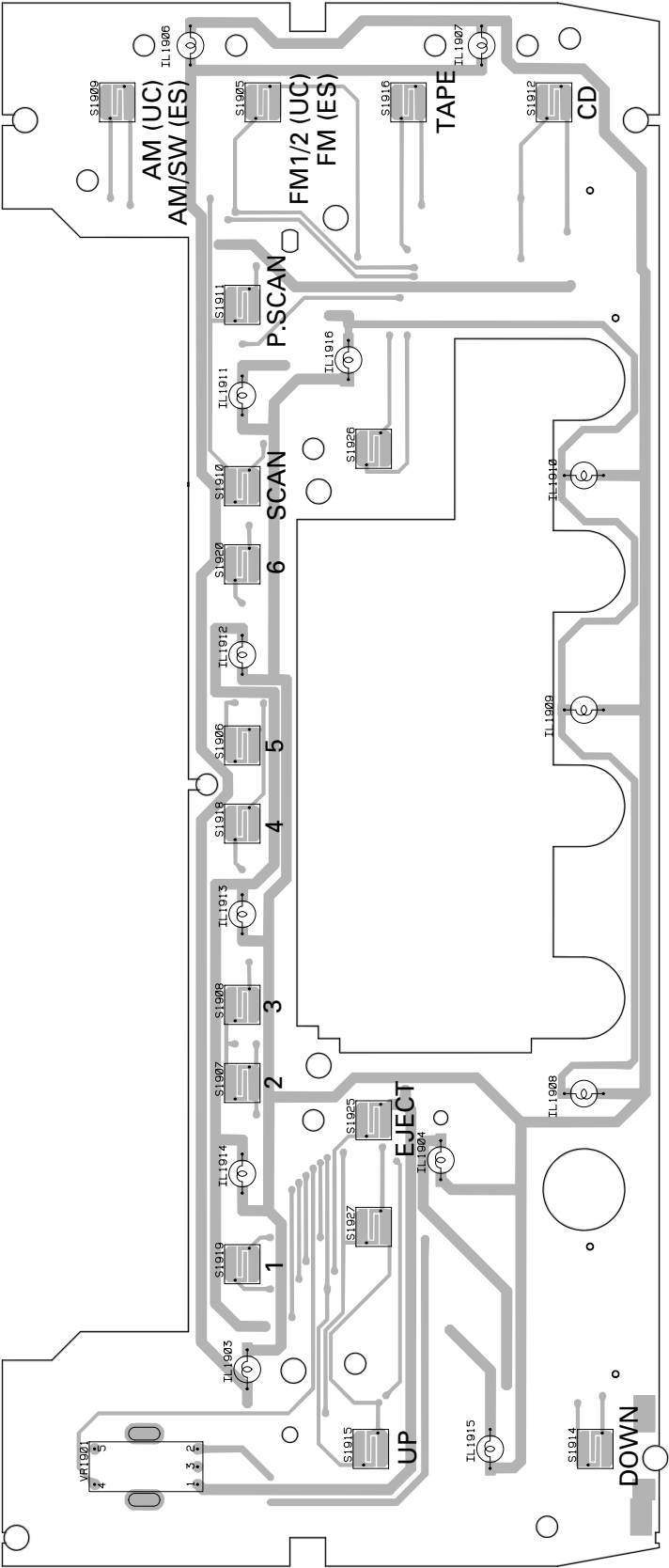
A

B

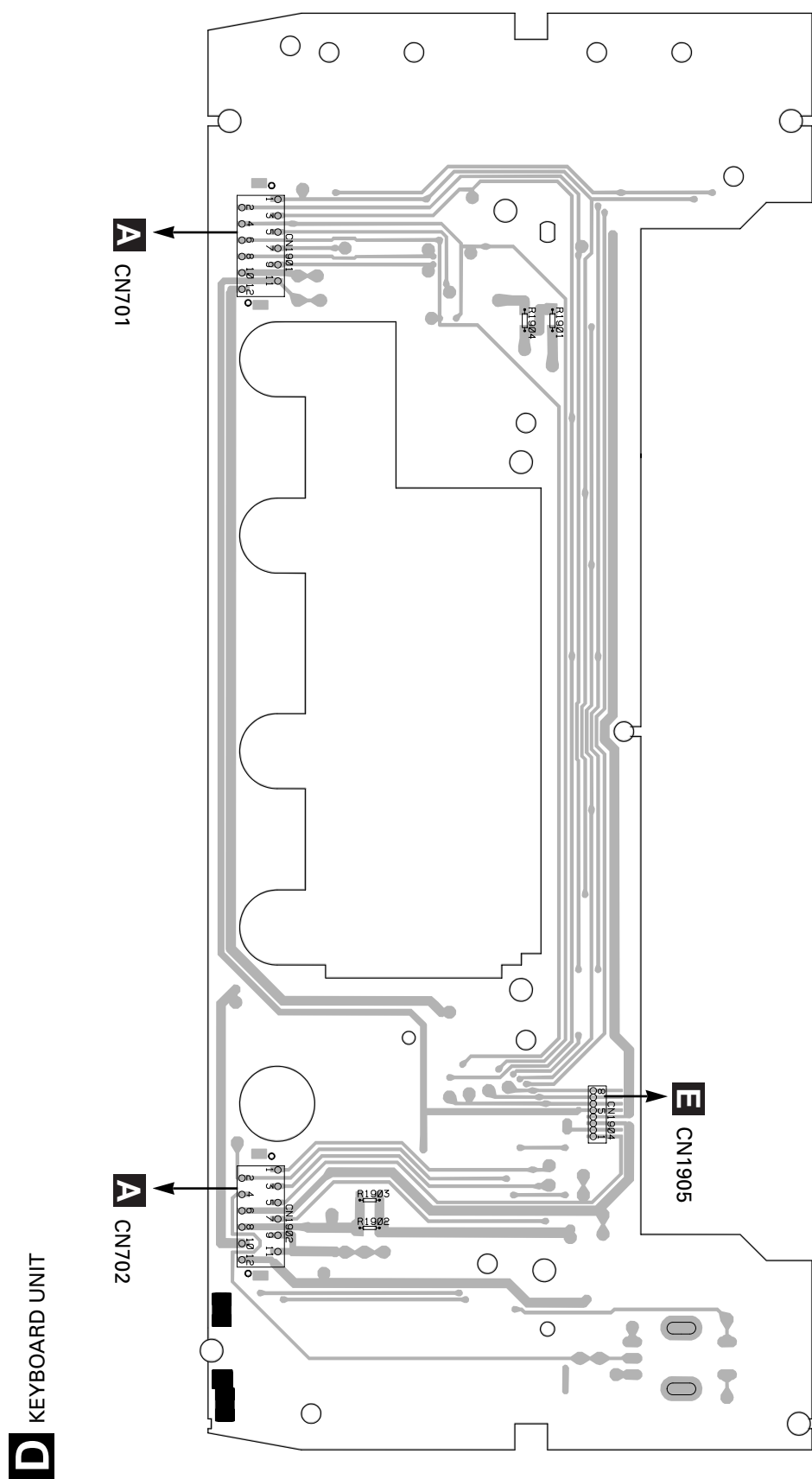
C

D

**D** KEYBOARD UNIT



SIDE B



**D** KEYBOARD UNIT

4.5 LCD UNIT

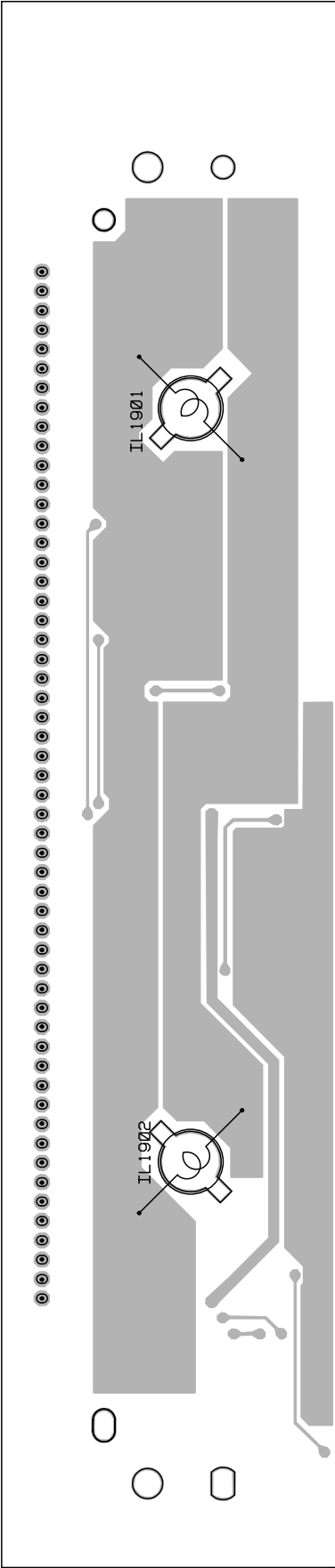
A

B

C

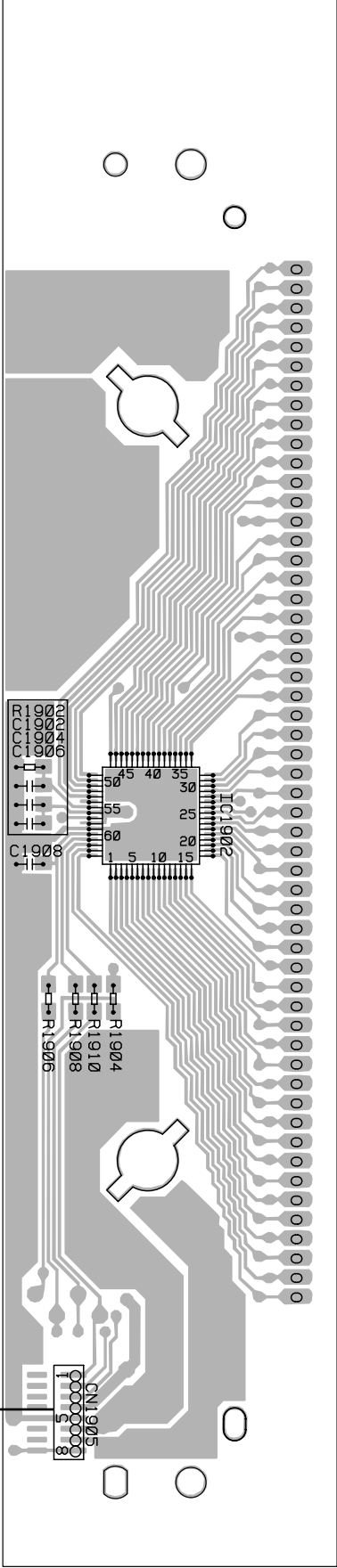
D

LCD UNIT  
**E**



**SIDE A**

LCD UNIT  
**D** CN1904  
**E**

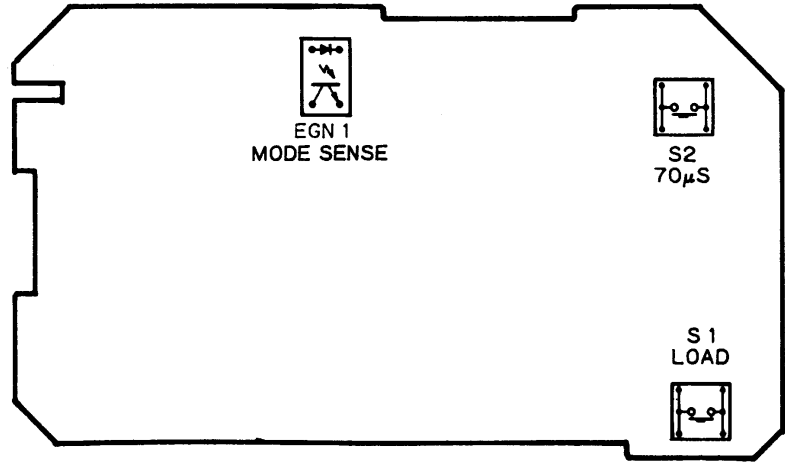


**SIDE B**



**G** PCB UNIT

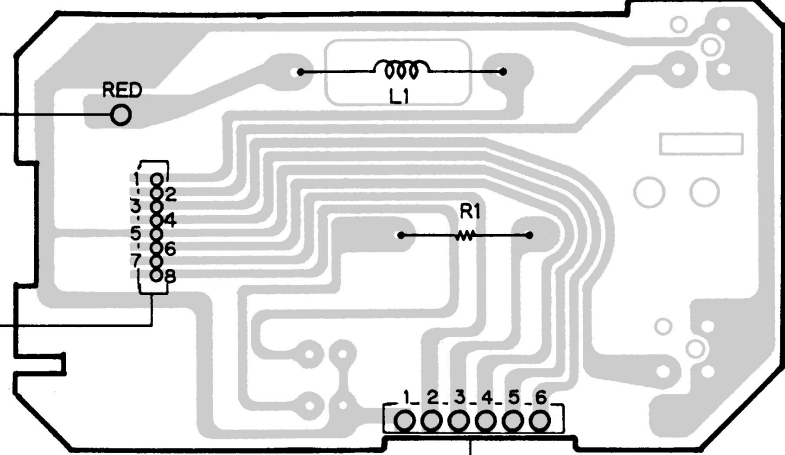
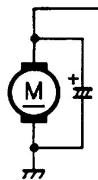
SIDE A



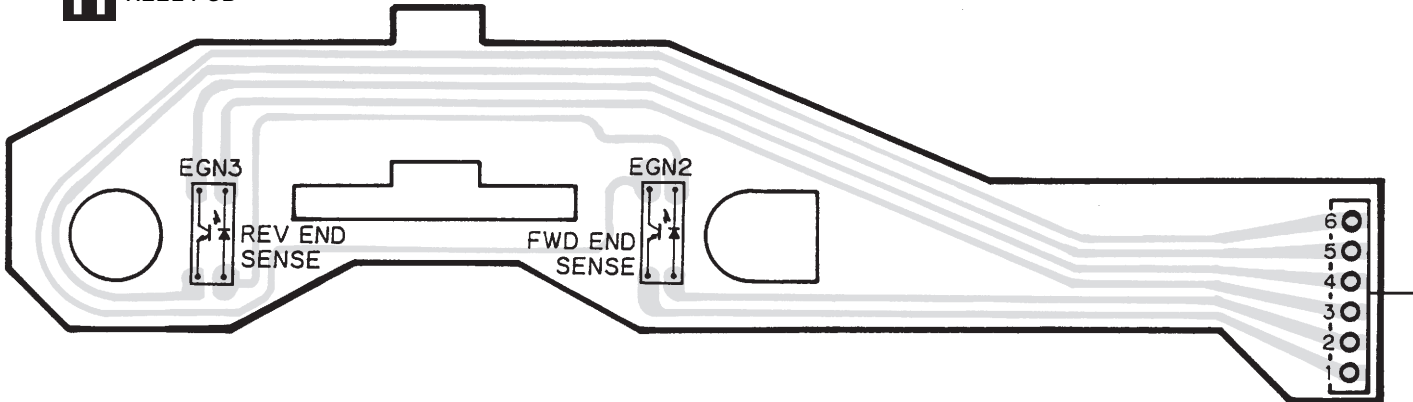
**G** PCB UNIT

SIDE B

M 1  
MOTOR UNIT  
(MAIN MOTOR)



**H** REEL PCB



## 5. ELECTRICAL PARTS LIST

### NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OS○○○○J,RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.																																																																																																																																																																																																																																			
<table border="1"><tr><td>Main Unit</td></tr><tr><td>Consists of</td></tr><tr><td>Mother PCB</td></tr><tr><td>Tuner Control PCB</td></tr></table>	Main Unit	Consists of	Mother PCB	Tuner Control PCB		Q 857	Transistor	2SB1260																																																																																																																																																																																																																														
	Main Unit																																																																																																																																																																																																																																					
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Tuner Control PCB																																																																																																																																																																																																																																						
	Q 858	Transistor	2SA1162																																																																																																																																																																																																																																			
	Q 861	Transistor	IMD3A																																																																																																																																																																																																																																			
	Q 862	Transistor	DTC123YK																																																																																																																																																																																																																																			
<table border="1"><tr><td rowspan="4"><div><div>A</div><div>B</div></div></td><td>Unit Number : CWM6072</td><td>Q 863</td><td>Transistor</td><td>DTA114EK</td></tr><tr><td>(KEX-M8196ZT/UC)</td><td>Q 864</td><td>Transistor</td><td>IMD3A</td></tr><tr><td>: CWM6134</td><td>Q 891</td><td>Transistor</td><td>DTC144EK</td></tr><tr><td>(KEX-M8396ZT-02/ES)</td><td>Q 901</td><td>Chip Transistor</td><td>2SC2712</td></tr><tr><td>Unit Name : Main Unit</td><td>Q 902</td><td>Chip Transistor</td><td>2SC2712</td></tr><tr><td></td><td>Q 903</td><td>Chip Transistor</td><td>2SC2712</td></tr><tr><td colspan="2">MISCELLANEOUS</td><td>Q 911</td><td>Transistor</td><td>2SC3651</td></tr><tr><td>IC 301 IC</td><td>PM2002</td><td>Q 915</td><td>Transistor</td><td>DTA114TK</td></tr><tr><td>IC 411 IC</td><td>NJM2068MD</td><td>Q 917</td><td>Transistor</td><td>2SA1162</td></tr><tr><td>IC 421 IC</td><td>NJM2068MD</td><td>Q 921</td><td>Transistor</td><td>2SA1162</td></tr><tr><td>IC 431 IC</td><td>PMJ002A</td><td>Q 922</td><td>Transistor</td><td>DTC114EK</td></tr><tr><td>IC 471 IC</td><td>TA2050F</td><td>Q 923</td><td>Transistor</td><td>2SA1162</td></tr><tr><td>IC 472 IC</td><td>TA2050F</td><td>Q 924</td><td>Transistor</td><td>DTC114EK</td></tr><tr><td>IC 491 IC</td><td>NJM2068MD</td><td>Q 925</td><td>Transistor</td><td>IMD3A</td></tr><tr><td>IC 501 IC</td><td>LC72146MQ</td><td>Q 944</td><td>Transistor</td><td>DTA114EK</td></tr><tr><td>IC 652 IC (KEX-M8196ZT/UC)</td><td>LA1061M</td><td>Q 957</td><td>Chip Transistor</td><td>2SC2712</td></tr><tr><td>IC 701 IC</td><td>PE5009A</td><td>Q 958</td><td>Transistor</td><td>2SB942</td></tr><tr><td>IC 821 IC</td><td>S-80736AN-D0</td><td>Q 959</td><td>Transistor</td><td>2SB942</td></tr><tr><td>IC 881 IC</td><td>CA0008AM</td><td>Q 960</td><td>Transistor</td><td>2SD1767</td></tr><tr><td>IC 921 IC</td><td>PA2024A</td><td>Q 961</td><td>Chip Transistor</td><td>2SC2712</td></tr><tr><td>Q 301 Transistor</td><td>2SK209</td><td>Q 962</td><td>Transistor</td><td>2SA1162</td></tr><tr><td>Q 351 Chip Transistor</td><td>2SC2712</td><td>D 301</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 501 Transistor (KEX-M8396ZT-02/ES)</td><td>DTA114EK</td><td>D 302</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 502 Transistor (KEX-M8396ZT-02/ES)</td><td>DTC114EK</td><td>D 303</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 503 Chip Transistor (KEX-M8396ZT-02/ES)</td><td>2SC2712</td><td>D 471</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 504 Transistor (KEX-M8396ZT-02/ES)</td><td>DTA114EK</td><td>D 472</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 505 Transistor (KEX-M8396ZT-02/ES)</td><td>DTC124EK</td><td>D 473</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 506 Transistor</td><td>DTC144EK</td><td>D 474</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 511 Chip Transistor</td><td>2SC2712</td><td>D 475</td><td>Diode</td><td>UDZS10(B)</td></tr><tr><td>Q 512 Transistor</td><td>2SK208</td><td>D 476</td><td>Diode</td><td>UDZS10(B)</td></tr><tr><td>Q 661 Chip Transistor (KEX-M8196ZT/UC)</td><td>2SC2712</td><td>D 477</td><td>Diode</td><td>UDZS10(B)</td></tr><tr><td>Q 662 Transistor (KEX-M8196ZT/UC)</td><td>DTC143TK</td><td>D 478</td><td>Diode</td><td>UDZS10(B)</td></tr><tr><td>Q 680 Chip Transistor</td><td>2SC2712</td><td>D 503</td><td>Diode</td><td>MA8027(H)</td></tr><tr><td>Q 681 Chip Transistor</td><td>2SC2712</td><td>D 652</td><td>Chip Diode</td><td>MA151WK</td></tr><tr><td>Q 682 Chip Transistor</td><td>2SC2712</td><td>D 655</td><td>Diode (KEX-M8196ZT/UC)</td><td>1SV241</td></tr><tr><td>Q 699 Transistor</td><td>DTC144EK</td><td>D 680</td><td>Chip Diode</td><td>MA151WK</td></tr><tr><td>Q 811 Transistor</td><td>DTC144EK</td><td>D 681</td><td>Chip Diode</td><td>MA151WK</td></tr><tr><td>Q 831 Transistor</td><td>2SA1162</td><td>D 720</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 832 Transistor</td><td>DTC144EK</td><td>D 721</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 841 Transistor (KEX-M8396ZT-02/ES)</td><td>2SA1162</td><td>D 722</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 842 Transistor (KEX-M8396ZT-02/ES)</td><td>DTC144EK</td><td>D 723</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 851 Transistor</td><td>2SB1260</td><td>D 724</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 852 Transistor</td><td>2SA1162</td><td>D 725</td><td>Diode (KEX-M8396ZT-02/ES)</td><td>1SS355</td></tr><tr><td>Q 853 Transistor</td><td>2SB1260</td><td>D 831</td><td>Diode</td><td>UDZ20(B)</td></tr><tr><td>Q 854 Transistor</td><td>2SA1162</td><td>D 841</td><td>Diode (KEX-M8396ZT-02/ES)</td><td>1SS355</td></tr><tr><td>Q 855 Transistor</td><td>2SB1260</td><td>D 863</td><td>Diode</td><td>1SS355</td></tr><tr><td>Q 856 Transistor</td><td>2SA1162</td><td></td><td></td><td></td></tr></table>	<div><div>A</div><div>B</div></div>	Unit Number : CWM6072	Q 863	Transistor	DTA114EK	(KEX-M8196ZT/UC)	Q 864	Transistor	IMD3A	: CWM6134	Q 891	Transistor	DTC144EK	(KEX-M8396ZT-02/ES)	Q 901	Chip Transistor	2SC2712	Unit Name : Main Unit	Q 902	Chip Transistor	2SC2712		Q 903	Chip Transistor	2SC2712	MISCELLANEOUS		Q 911	Transistor	2SC3651	IC 301 IC	PM2002	Q 915	Transistor	DTA114TK	IC 411 IC	NJM2068MD	Q 917	Transistor	2SA1162	IC 421 IC	NJM2068MD	Q 921	Transistor	2SA1162	IC 431 IC	PMJ002A	Q 922	Transistor	DTC114EK	IC 471 IC	TA2050F	Q 923	Transistor	2SA1162	IC 472 IC	TA2050F	Q 924	Transistor	DTC114EK	IC 491 IC	NJM2068MD	Q 925	Transistor	IMD3A	IC 501 IC	LC72146MQ	Q 944	Transistor	DTA114EK	IC 652 IC (KEX-M8196ZT/UC)	LA1061M	Q 957	Chip Transistor	2SC2712	IC 701 IC	PE5009A	Q 958	Transistor	2SB942	IC 821 IC	S-80736AN-D0	Q 959	Transistor	2SB942	IC 881 IC	CA0008AM	Q 960	Transistor	2SD1767	IC 921 IC	PA2024A	Q 961	Chip Transistor	2SC2712	Q 301 Transistor	2SK209	Q 962	Transistor	2SA1162	Q 351 Chip Transistor	2SC2712	D 301	Diode	1SS355	Q 501 Transistor (KEX-M8396ZT-02/ES)	DTA114EK	D 302	Diode	1SS355	Q 502 Transistor (KEX-M8396ZT-02/ES)	DTC114EK	D 303	Diode	1SS355	Q 503 Chip Transistor (KEX-M8396ZT-02/ES)	2SC2712	D 471	Diode	1SS355	Q 504 Transistor (KEX-M8396ZT-02/ES)	DTA114EK	D 472	Diode	1SS355	Q 505 Transistor (KEX-M8396ZT-02/ES)	DTC124EK	D 473	Diode	1SS355	Q 506 Transistor	DTC144EK	D 474	Diode	1SS355	Q 511 Chip Transistor	2SC2712	D 475	Diode	UDZS10(B)	Q 512 Transistor	2SK208	D 476	Diode	UDZS10(B)	Q 661 Chip Transistor (KEX-M8196ZT/UC)	2SC2712	D 477	Diode	UDZS10(B)	Q 662 Transistor (KEX-M8196ZT/UC)	DTC143TK	D 478	Diode	UDZS10(B)	Q 680 Chip Transistor	2SC2712	D 503	Diode	MA8027(H)	Q 681 Chip Transistor	2SC2712	D 652	Chip Diode	MA151WK	Q 682 Chip Transistor	2SC2712	D 655	Diode (KEX-M8196ZT/UC)	1SV241	Q 699 Transistor	DTC144EK	D 680	Chip Diode	MA151WK	Q 811 Transistor	DTC144EK	D 681	Chip Diode	MA151WK	Q 831 Transistor	2SA1162	D 720	Diode	1SS355	Q 832 Transistor	DTC144EK	D 721	Diode	1SS355	Q 841 Transistor (KEX-M8396ZT-02/ES)	2SA1162	D 722	Diode	1SS355	Q 842 Transistor (KEX-M8396ZT-02/ES)	DTC144EK	D 723	Diode	1SS355	Q 851 Transistor	2SB1260	D 724	Diode	1SS355	Q 852 Transistor	2SA1162	D 725	Diode (KEX-M8396ZT-02/ES)	1SS355	Q 853 Transistor	2SB1260	D 831	Diode	UDZ20(B)	Q 854 Transistor	2SA1162	D 841	Diode (KEX-M8396ZT-02/ES)	1SS355	Q 855 Transistor	2SB1260	D 863	Diode	1SS355	Q 856 Transistor	2SA1162			
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(KEX-M8396ZT-02/ES)	Q 901		Chip Transistor	2SC2712																																																																																																																																																																																																																																		
Unit Name : Main Unit	Q 902	Chip Transistor	2SC2712																																																																																																																																																																																																																																			
	Q 903	Chip Transistor	2SC2712																																																																																																																																																																																																																																			
MISCELLANEOUS		Q 911	Transistor	2SC3651																																																																																																																																																																																																																																		
IC 301 IC	PM2002	Q 915	Transistor	DTA114TK																																																																																																																																																																																																																																		
IC 411 IC	NJM2068MD	Q 917	Transistor	2SA1162																																																																																																																																																																																																																																		
IC 421 IC	NJM2068MD	Q 921	Transistor	2SA1162																																																																																																																																																																																																																																		
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Q 505 Transistor (KEX-M8396ZT-02/ES)	DTC124EK	D 473	Diode	1SS355																																																																																																																																																																																																																																		
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Q 662 Transistor (KEX-M8196ZT/UC)	DTC143TK	D 478	Diode	UDZS10(B)																																																																																																																																																																																																																																		
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Q 682 Chip Transistor	2SC2712	D 655	Diode (KEX-M8196ZT/UC)	1SV241																																																																																																																																																																																																																																		
Q 699 Transistor	DTC144EK	D 680	Chip Diode	MA151WK																																																																																																																																																																																																																																		
Q 811 Transistor	DTC144EK	D 681	Chip Diode	MA151WK																																																																																																																																																																																																																																		
Q 831 Transistor	2SA1162	D 720	Diode	1SS355																																																																																																																																																																																																																																		
Q 832 Transistor	DTC144EK	D 721	Diode	1SS355																																																																																																																																																																																																																																		
Q 841 Transistor (KEX-M8396ZT-02/ES)	2SA1162	D 722	Diode	1SS355																																																																																																																																																																																																																																		
Q 842 Transistor (KEX-M8396ZT-02/ES)	DTC144EK	D 723	Diode	1SS355																																																																																																																																																																																																																																		
Q 851 Transistor	2SB1260	D 724	Diode	1SS355																																																																																																																																																																																																																																		
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# KEX-M8196ZT,M8196ZT-91,M8396ZT-02,M8396ZT-92

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
D 882 Diode	UDZ20(B)	R 306	RS1/10S472J
D 883 Diode	UDZ20(B)	R 307	RS1/10S472J
D 891 Diode	1SS355	R 308	RS1/10S684J
D 892 Diode	1SS355	R 309	RS1/10S472J
D 893 Diode	UDZ20(B)	R 310	RS1/10S682J
D 894 Diode	UDZ20(B)	R 311	RS1/10S103J
D 895 Diode	1SS355	R 312	RS1/10S154J
D 896 Diode	1SS355	R 313	RS1/10S303J
D 901 Diode	GP30ML	R 314	RS1/10S472J
D 902 Diode	1SS355	R 315	RS1/10S104J
D 903 Diode	1SS355	R 316	RS1/10S102J
D 904 Diode	MA8075(H)	R 317	RS1/10S473J
D 905 Diode	MA8075(H)	R 318	RS1/10S912J
D 906 Diode	MA8075(H)	R 351	RS1/10S472J
D 911 Diode	ERA15-02VH	R 352	RS1/10S471J
D 912 Diode	1SS355	R 353	RS1/10S683J
D 913 Diode	UDZS5R6(B)	R 354	RS1/10S103J
D 921 Diode	1SS355	R 355	RS1/10S222J
D 922 Diode	1SS355	R 356	RS1/10S0R0J
D 941 Diode	HZU4R3(B2)	R 357	RS1/10S102J
D 953 Diode	MA153	R 411	(KEX-M8196ZT/UC) RS1/10S182J
D 954 Diode	UDZS10(B)	R 411	(KEX-M8396ZT-02/ES) RS1/10S471J
D 955 Diode	UDZS8R2(B)	R 412	(KEX-M8196ZT/UC) RS1/10S182J
L 501 Inductor	LCYA150K3225	R 412	(KEX-M8396ZT-02/ES) RS1/10S471J
L 598 Inductor	LCYA100K3225	R 413	RS1/10S123J
L 599 Inductor	LCYA100K3225	R 414	RS1/10S123J
L 610 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 415	RS1/10S123J
L 611 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 416	RS1/10S123J
L 612 Inductor (KEX-M8196ZT/UC)	LCTB100K3216	R 417	RS1/10S183J
L 613 Inductor (KEX-M8196ZT/UC)	LCTB100K3216	R 418	RS1/10S183J
L 614 Inductor (KEX-M8196ZT/UC)	LCTA561J4532	R 421	RS1/10S473J
L 615 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 422	RS1/10S473J
L 616 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 423	RS1/10S473J
L 617 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 424	RS1/10S473J
L 618 Inductor (KEX-M8196ZT/UC)	LCTB100K3216	R 425	RS1/10S473J
L 619 Inductor (KEX-M8196ZT/UC)	LCTB100K3216	R 426	RS1/10S473J
L 620 Inductor (KEX-M8196ZT/UC)	LCTBR33K3216	R 427	RS1/10S473J
L 651 Inductor (KEX-M8196ZT/UC)	LCYA150K3225	R 428	RS1/10S473J
L 671 Inductor	LCYA100K3225	R 429	RS1/10S103J
L 881 Inductor	LCTA100J3225	R 430	RS1/10S103J
L 901 Choke Coil 125μH	CTH1069	R 431	RS1/10S273J
L 921 Inductor	LCTA4R7J2520	R 432	RS1/10S273J
L 922 Inductor	LCTA4R7J2520	R 433	RS1/10S101J
L 923 Inductor	LCTA4R7J2520	R 434	RS1/10S101J
L 924 Inductor	LCTA4R7J2520	R 435	RS1/10S361J
L 931 Inductor	LCTA100J3225	R 436	RS1/10S361J
L 935 Inductor	LCTA100J3225	R 437	RS1/10S471J
X 501 Crystal Resonator 4.5MHz	CSS1011	R 438	RS1/10S471J
X 701 Ceramic Resonator 6.290MHz	CSS1305	R 439	RS1/10S181J
VR 301 Semi-fixed 10kΩ(B)	CCP1206	R 440	RS1/10S181J
VR 351 Semi-fixed 10kΩ(B)	CCP1206	R 441	RS1/10S153J
VR 352 Semi-fixed 10kΩ(B)	CCP1206	R 442	RS1/10S152J
VR 901 Volume 50kΩ(W)	CCS1119	R 443	RS1/10S123J
VR 902 Volume 50kΩ(W)	CCS1119	R 471	RS1/10S102J
VR 903 Volume 50kΩ(W)	CCS1119	R 472	RS1/10S102J
VR 904 Volume 50kΩ(W)	CCS1119	R 473	RS1/10S102J
VR 905 Volume 50kΩ(W)	CCS1119	R 474	RS1/10S102J
MIC 351 Microphone	CPM1011	R 475	RS1/10S473J
FM/AM Tuner Unit (KEX-M8196ZT/UC)	CWE1523	R 476	RS1/10S473J
Tuner Unit (KEX-M8396ZT-02/ES)	CWE1457	R 477	RS1/10S473J
AR 651	DSP-201M-A21F	R 478	RS1/10S473J
AR 652 (KEX-M8196ZT/UC)	DSP-201M-A21F	R 479	RS1/10S101J
		R 480	RS1/10S101J
		R 481	RS1/10S101J
		R 482	RS1/10S101J
RESISTORS			
R 301	RS1/10S103J		
R 302	RS1/10S474J		
R 303	RS1/10S472J		
R 304	RS1/10S153J		
R 305	RS1/10S153J		




====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
R 491	RS1/10S103J	R 683	RS1/10S333J
R 492	RS1/10S103J	R 684	RS1/10S222J
R 493	RS1/10S103J	R 685	RS1/10S222J
R 494	RS1/10S103J	R 686	RS1/10S0R0J
R 495	RS1/10S103J	R 687	RS1/10S0R0J
R 496	RS1/10S103J	R 694	RS1/10S102J
R 497	RAB4C473J	R 695	RS1/10S103J
R 498	RS1/10S183J	R 696	RS1/10S393J
R 501	RS1/10S473J	R 697	RS1/10S102J
R 502	RAB4C681J	R 699	RS1/10S221J
R 506 (KEX-M8396ZT-02/ES)	RS1/10S473J	R 701	RS1/10S222J
R 507 (KEX-M8396ZT-02/ES)	RS1/10S473J	R 702	RS1/10S222J
R 508 (KEX-M8396ZT-02/ES)	RS1/10S222J	R 705	RS1/10S102J
R 510 (KEX-M8396ZT-02/ES)	RS1/10S473J	R 706	RAB4C681J
R 511	RS1/10S473J	R 707	RS1/10S223J
R 512 (KEX-M8196ZT/UC)	RS1/10S472J	R 708	RS1/10S473J
R 512 (KEX-M8396ZT-02/ES)	RS1/10S222J	R 709	RS1/10S472J
R 513 (KEX-M8196ZT/UC)	RS1/10S0R0J	R 710	RS1/10S472J
R 513 (KEX-M8396ZT-02/ES)	RS1/10S222J	R 711	RS1/10S472J
R 514	RS1/10S152J	R 712	RS1/10S103J
R 515	RS1/10S222J	R 713	RS1/10S103J
R 516	RS1/10S102J	R 714	RS1/10S473J
R 517	RS1/10S103J	R 715	RS1/10S473J
R 518	RS1/16S821J	R 716	RS1/10S102J
R 519	RS1/16S151J	R 717	RS1/10S102J
R 530	RS1/10S0R0J	R 718	RS1/10S473J
R 534	RS1/10S102J	R 719	RS1/10S473J
R 537	RS1/10S102J	R 720	RS1/10S102J
R 538	RS1/10S0R0J	R 721	RAB4C102J
R 545	RS1/10S332J	R 725 (KEX-M8396ZT-02/ES)	RS1/10S102J
R 546	RS1/10S473J	R 727	RAB4C102J
R 548	RS1/10S103J	R 728	RAB4C473J
R 570 (KEX-M8196ZT/UC)	RS1/10S471J	R 731	RAB4C102J
R 571 (KEX-M8196ZT/UC)	RS1/10S103J	R 732	RS1/10S473J
R 572 (KEX-M8196ZT/UC)	RS1/10S103J	R 733	RS1/10S473J
R 573 (KEX-M8196ZT/UC)	RS1/10S104J	R 734	RS1/10S473J
R 574 (KEX-M8196ZT/UC)	RS1/10S103J	R 735	RS1/10S473J
R 575 (KEX-M8196ZT/UC)	RS1/10S104J	R 736	RS1/10S102J
R 576 (KEX-M8196ZT/UC)	RS1/10S182J	R 737	RS1/10S102J
R 577 (KEX-M8196ZT/UC)	RS1/10S683J	R 738	RS1/10S102J
R 578 (KEX-M8196ZT/UC)	RS1/10S334J	R 739	RAB4C102J
R 581 (KEX-M8196ZT/UC)	RS1/10S104J	R 740	RS1/10S473J
R 582 (KEX-M8196ZT/UC)	RS1/10S101J	R 741	RS1/10S473J
R 583 (KEX-M8196ZT/UC)	RS1/10S101J	R 743	RS1/10S681J
R 584 (KEX-M8196ZT/UC)	RS1/10S473J	R 744	RS1/10S102J
R 585 (KEX-M8196ZT/UC)	RS1/10S473J	R 745	RS1/10S102J
R 586 (KEX-M8196ZT/UC)	RS1/10S224J	R 746	RS1/10S102J
R 587 (KEX-M8196ZT/UC)	RS1/10S391J	R 747	RS1/10S102J
R 633	RS1/10S101J	R 748	RS1/10S102J
R 634	RS1/10S102J	R 749	RS1/10S102J
R 649	RS1/10S272J	R 754	RS1/10S102J
R 650	RS1/10S272J	R 755	RS1/10S102J
R 651 (KEX-M8396ZT-02/ES)	RS1/10S0R0J	R 756	RS1/10S102J
R 659	RS1/10S562J	R 757	RS1/10S102J
R 660	RS1/10S562J	R 759	RS1/10S102J
R 661 (KEX-M8196ZT/UC)	RS1/10S333J	R 760	RS1/10S102J
R 661 (KEX-M8396ZT-02/ES)	RS1/10S273J	R 761	RS1/10S473J
R 662	RS1/10S822J	R 762	RA3C102J
R 674	RS1/10S102J	R 763	RA3C473J
R 675	RS1/10S102J	R 767	RS1/10S222J
R 678	RS1/10S333J	R 768	RS1/10S473J
R 679	RS1/10S333J	R 769	RS1/10S222J
R 680	RS1/10S103J	R 773	RS1/10S473J
R 681	RS1/10S222J	R 776	RS1/10S102J
R 682	RS1/10S333J	R 777	RS1/10S102J

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
R 778	RS1/10S222J	R 944	RS1/10S104J
R 779	RS1/10S222J	R 959	RS1/10S222J
R 780	RS1/10S222J	R 960	RS1/10S223J
R 811	RS1/8S222J	R 961	RS1/4S101J
R 821	RS1/10S104J	R 962	RS1/4S101J
R 831	RS1/10S103J	R 963	RS1/10S103J
R 832	RS1/10S103J	R 965	RS1/10S223J
R 833	RS1/10S473J	R 966	RS1/10S103J
R 834	RS1/4S101J	R 967	RS1/10S103J
R 835	RS1/4S101J	R 968	RS1/10S123J
R 841 (KEX-M8396ZT-02/ES)	RS1/10S103J	R 969	RS1/10S103J
R 842 (KEX-M8396ZT-02/ES)	RS1/10S103J	R 970	RS1/10S103J
R 843 (KEX-M8396ZT-02/ES)	RS1/10S473J	R 971	RS1/10S103J
R 844 (KEX-M8396ZT-02/ES)	RS1/4S101J	R 972	RS1/4S821J
R 845 (KEX-M8396ZT-02/ES)	RS1/4S101J	R 973	RS1/10S103J
R 851	RS1/10S2R2J	R 974	RS1/8S472J
R 852	RS1/10S471J	R 975	RS1/4S2R2J
R 853	RS1/10S2R2J	R 976	RS1/4S2R2J
R 854	RS1/10S471J	R 977	RS1/4S2R2J
R 855	RS1/10S2R2J	R 978	RS1/4S2R2J
R 856	RS1/10S471J	R 998	RS1/4S0R0J
R 857	RS1/10S2R2J	CAPACITORS	
R 858	RS1/10S471J		
R 861	RS1/10S102J		
R 862	RS1/10S103J		
R 863	RS1/10S102J		
R 864	RS1/10S102J	C 301	CEJA470M10
R 865	RS1/10S103J	C 302	CEJA470M10
R 866	RS1/10S102J	C 303	CEJA330M10
R 867	RS1/10S103J	C 304	CEAL6R8M35
R 868	RS1/10S153J	C 305	CEJA220M10
R 869	RS1/10S153J	C 306	CEJANP100M16
R 870	RS1/10S153J	C 307	CKSQYB823K25
R 871	RS1/10S153J	C 308	CEJANP100M16
R 885	RS1/4S101J	C 309	CEJANP220M16
R 886	RS1/4S101J	C 310	CEJAR68M50
R 887	RS1PMF680J	C 311	CEJA100M16
R 891	RS1/4S221J	C 312	CEJA470M10
R 892	RS1/4S471J	C 313	CEJA100M16
R 893	RS1/4S221J	C 314	CEJANP100M16
R 894	RS1/10S103J	C 315	CEJA220M10
R 903	RS1/10S104J	C 316	CEJA101M10
R 904	RS1/10S473J	C 317	CEJA470M10
R 905	RS1/8S472J	C 318	CKSQYB103K50
R 906	RS1/8S222J	C 351	CEJAR68M50
R 907	RS1/10S104J	C 352	CEJA470M10
R 908	RS1/10S223J	C 411	CEJA100M16
R 909	RS1/8S472J	C 412	CEJA100M16
R 910	RS1/8S222J	C 413	CEJANP3R3M25
R 911	RS1/10S104J	C 414	CEJANP3R3M25
R 912	RS1/10S223J	C 417	CCSQCH390J50
R 913	RS1/4S100J	C 418	CCSQCH390J50
R 914	RS1/4S100J	C 419	CKSQYB103K50
R 915	RS1/8S4R7J	C 421	CCSQCH150J50
R 916	RS1/10S153J	C 422	CCSQCH150J50
R 917	RS1/10S222J	C 425	CEJA4R7M35
R 918	RS1/10S474J	C 426	CEJA4R7M35
R 921	RS1/10S473J	C 427	CEJA4R7M35
R 922	RS1/10S102J	C 428	CEJA4R7M35
R 923	RS1/10S103J	C 429	CKSQYB103K50
R 924	RS1/10S183J	C 431	CKSQYB272K50
R 925	RS1/10S103J	C 432	CKSQYB272K50
R 926	RS1/10S183J	C 433	CEJA100M16
R 927	RS1/10S102J	C 434	CEJA100M16
R 941	RS1/10S102J	C 435	CEJA100M16
		C 436	CEJA100M16

**KEX-M8196ZT,M8196ZT-91,M8396ZT-02,M8396ZT-92**

====Circuit Symbol and No.===Part Name			Part No.	====Circuit Symbol and No.===Part Name			Part No.
C	437		CEJA2R2M50	C	510	(KEX-M8396ZT-02/ES)	CEASR47M50
C	438		CEJA2R2M50	C	511	4.7μF/16V	CCH1165
C	439		CKSQYB152K50	C	512		CKSQYB103K50
C	440		CKSQYB152K50	C	513		CKSQYB472K50
C	441		CKSQYB682K50	C	514		CGCYX103K25
C	442		CKSQYB682K50	C	515		CKSQYB103K50
C	443		CKSQYB222K50	C	520		CKSQYB103K50
C	444		CKSQYB222K50	C	523		CKSQYB223K50
C	445		CKSQYB124K25	C	594		CKSQYB102K50
C	446		CKSQYB124K25	C	595		CKSQYB103K50
C	447		CKSQYB682K50	C	599		CKSQYB102K50
C	448		CKSQYB682K50	C	627		CKSQYB103K50
C	449		CEJANP2R2M35	C	629		CKSQYB103K50
C	450		CEJANP2R2M35	C	630		CEAS100M16
C	451		CKSQYB823K25	C	631	(KEX-M8196ZT/UC)	CKSQYB392K50
C	452		CKSQYB823K25	C	632	(KEX-M8196ZT/UC)	CKSQYB103K50
C	453		CCSQCH101J50	C	633	(KEX-M8196ZT/UC)	CKSQYB103K50
C	454		CCSQCH101J50	C	637	(KEX-M8196ZT/UC)	CEAS2R2M50
C	455		CEJA100M16	C	639	(KEX-M8196ZT/UC)	CCSQCH150J50
C	456		CEJA100M16	C	643		CKSQYB102K50
C	457		CKSQYB104K50	C	644		CKSQYB103K50
C	458		CKSQYB103K50	C	645	(KEX-M8396ZT-02/ES)	CKSQYB103K50
C	459		CKSQYB102K50	C	649	(KEX-M8196ZT/UC)	CKSQYB333K50
C	461		CEJA100M16	C	649	(KEX-M8396ZT-02/ES)	CKSQYB223K50
C	462		CKSQYB104K25	C	650	(KEX-M8196ZT/UC)	CKSQYB333K50
C	463		CEJA2R2M50	C	650	(KEX-M8396ZT-02/ES)	CKSQYB223K50
C	464		CEJA100M16	C	651	(KEX-M8196ZT/UC)	CEAS100M16
C	471		CEJANP3R3M25	C	652	(KEX-M8196ZT/UC)	CCSQCH220J50
C	472		CEJANP3R3M25	C	653	(KEX-M8196ZT/UC)	CCSQCH150J50
C	473		CEJANP3R3M25	C	654	(KEX-M8196ZT/UC)	CCSQCH390J50
C	474		CEJANP3R3M25	C	655	(KEX-M8196ZT/UC)	CCSQCH220J50
C	475		CEJANP3R3M25	C	656	(KEX-M8196ZT/UC)	CKSQYB222K50
C	476		CEJANP3R3M25	C	657	(KEX-M8196ZT/UC)	CKSQYB473K25
C	477		CKSQYB102K50	C	658	(KEX-M8196ZT/UC)	CKSQYB472K50
C	478		CKSQYB102K50	C	659	(KEX-M8196ZT/UC)	CEAS100M16
C	479		CEJA101M10	C	660	(KEX-M8196ZT/UC)	CKSQYB103K50
C	480		CEJA101M10	C	661	(KEX-M8196ZT/UC)	CKSQYB103K50
C	481		CEJANP3R3M25	C	664	(KEX-M8196ZT/UC)	CKSQYB392K50
C	482		CEJANP3R3M25	C	664	(KEX-M8396ZT-02/ES)	CKSQYB183K50
C	483		CEJA3R3M50	C	665	(KEX-M8196ZT/UC)	CKSQYB392K50
C	484		CEJA3R3M50	C	665	(KEX-M8396ZT-02/ES)	CKSQYB183K50
C	485		CEJA3R3M50	C	666	(KEX-M8196ZT/UC)	CKSQYB224K16
C	486		CEJA3R3M50	C	666	(KEX-M8396ZT-02/ES)	CKSQYB223K50
C	487		CKSQYB223K50	C	667	(KEX-M8196ZT/UC)	CKSQYB103K50
C	488		CKSQYB223K50	C	668	(KEX-M8396ZT-02/ES)	CKSQYB103K50
C	489		CKSQYB223K50	C	670		CKSQYB103K50
C	490		CKSQYB223K50	C	675		CKSQYB103K50
C	491		CEJA101M10	C	676		CEAS100M16
C	492		CKSQYB104K50	C	677	(KEX-M8196ZT/UC)	CKSQYB102K50
C	493		CKSQYB471K50	C	678		CEAS1R0M50
C	494		CKSQYB471K50	C	679		CEAS1R0M50
C	495		CKSQYB471K50	C	680	(KEX-M8196ZT/UC)	CKSQYB393K25
C	496		CKSQYB471K50	C	680	(KEX-M8396ZT-02/ES)	CKSQYB153K50
C	497		CEJA3R3M50	C	681		CKSQYB682K5

====Circuit Symbol and No.====Part Name		Part No.	====Circuit Symbol and No.====Part Name		Part No.	
C	728	CKSYB102K50		Unit Number : CWE1523 (KEX-M8196ZT/UC)		
C	729	CKSYB102K50		Unit Name : FM/AM Tuner Unit		
C	730	CKSYB102K50				
C	745	CKSQYB103K50	MISCELLANEOUS			
C	760	CKSYB102K50	IC	1	IC	PA4026A
C	767	CKSYB102K50	IC	2	IC	PA4024A
C	768	CKSYB102K50	Q	1	Transistor	2SC2712
C	776	CKSQYB102K50	Q	3	FET	3SK263
C	777	CKSQYB103K50	Q	5	Transistor	2SK1067
C	778	CKSQYB102K50				
C	779	CKSQYB102K50	Q	31	Transistor	2SC2712
C	780	CKSQYB102K50	Q	151	Transistor	DTC144EU
C	821	CKSYB102K50	Q	201	FET	2SK291
C	822	CKSQYB103K50	Q	202	Transistor	2SC2712
C	831	CKSQYB103K50	D	3	Diode	1SV251
C	841	(KEX-M8396ZT-02/ES)	D	4	Diode	1SV250
C	851	CKSQYB103K50	D	5	Diode	KV1410-F1
C	853	CKSQYB102K50	D	6	Diode	MA157
C	855	CKSQYB102K50	D	7	Diode	KV1410-F1
C	857	CKSQYB102K50	D	8	Diode	KV1410-F1
C	881	CKSQYB473K25	D	9	Diode	KV1410-F1
C	882	CCSQCH101J50	D	10	Diode	1SV250
C	883	CCSQCH101J50	D	201	Diode	MA157
C	884	(KEX-M8196ZT/UC)	D	202	Diode	1SV251
C	884	(KEX-M8396ZT-02/ES)	D	231	Diode	SVC253
C	885	(KEX-M8196ZT/UC)	L	1	Inductor	LCTBR12K2125
C	885	(KEX-M8396ZT-02/ES)	L	2	Air-core Coil	CTC1152
C	894	2200μF/16V	L	3	Air-core Coil	CTC1152
C	901		L	4	Air-core Coil	CTC1151
C	902		L	5	Coil	CTC1147
C	903		L	6	Air-core Coil	CTC1153
C	904		L	40	Inductor	LCTBR15K1608
C	905		L	51	Ferri-Inductor	LAU150K
C	906		L	52	Coil	CTC1136
C	907	(KEX-M8196ZT/UC)	L	201	Ferri-Inductor	LAU4R7K
C	907	(KEX-M8396ZT-02/ES)	L	202	Ferri-Inductor	LAU330K
C	911	470μF/16V	L	203	Inductor	CTF1371
C	912		L	208	Inductor	LAU390K
C	913		L	209	Ferri-Inductor	LAU680K
C	914		L	210	Coil	CTB1103
C	915		L	231	Inductor	LAU3R3J
C	916	0.047F/5.5V	T	31	Coil	CTE1116
C	917		TC	1	Capacitor	CCL1046
C	921		TC	2	Capacitor	CCL1046
C	922		TC	3	Capacitor	CCL1046
C	923		CF	25	Ceramic Filter	CTF1290
C	924		CF	51	Ceramic Filter	CTF1290
C	925		CF	52	Ceramic Filter	CTF1144
C	926		CF	53	Ceramic Filter	CTF1145
C	927		CF	230	Crystal Filter	CTF1262
C	931		CF	232	Ceramic Filter	CTF1348
C	932		X	151	Radiator 918.5Hz	CSS1365
C	933		X	231	Crystal Resonator 10.26MHz	CSS1111
C	941		VR	101	Semi-fixed 15kΩ(B)	CCP1230
C	942		VR	151	Semi-fixed 10kΩ(B)	CCP1229
C	944		VR	154	Semi-fixed 150kΩ(B)	CCP1236
C	945		VR	156	Semi-fixed 100kΩ(B)	CCP1235
C	955		RESISTORS			
C	956	(KEX-M8396ZT-02/ES)	R	3		RS1/16S223J
C	960		R	4		RS1/16S101J
C	961		R	6		RS1/16S101J
C	962		R	8		RS1/16S332J
C	963		R	9		RS1/16S823J
C	999					

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 10	RS1/16S223J	C 7	CKSQYB473K16
R 11	RS1/16S124J	C 8	CKSQYB104K16
R 12	RS1/16S474J	C 9	CKSRYB222K50
R 15	RS1/16S161J	C 10	CEJA1R0M50
R 16	RS1/16S104J	C 11	CCSRCH470J50
R 17	RS1/16S332J	C 12	CCSRCJ3R0C50
R 18	RS1/16S332J	C 13	CKSRYB222K50
R 19	RS1/16S154J	C 15	CCSRCJ3R0D50
R 21	RS1/16S332J	C 17	CCSRCH120J50
R 22	RS1/16S510J	C 18	CKSRYB103K25
R 24	RS1/16S101J	C 19	CCSRCH120J50
R 25	RS1/16S221J	C 20	CKSRYB222K50
R 26	RS1/16S102J	C 21	CEJA100M16
R 31	RS1/16S470J	C 22	CCSRRH100D50
R 32	RS1/16S912J	C 23	CCSRRH150J50
R 33	RS1/16S912J	C 24	CCSRCH471J50
R 34	RS1/16S331J	C 30	CCSRRH201J50
R 35	RS1/16S331J	C 31	CKSRYB103K25
R 51	RS1/16S331J	C 32	CKSQYB473K16
R 55	RS1/16S102J	C 33	CCSRCH220J50
R 56	RS1/16S823J	C 34	CCSRCH4R0D50
R 61	RS1/16S392J	C 41	CKSQYB104K16
R 62	RS1/16S273J	C 51	CKSRYB223K25
R 103	RS1/16S333J	C 52	CKSRYB103K25
R 104	RS1/16S334J	C 54	CCSRCH470J50
R 105	RS1/16S683J	C 55	CKSQYB223K25
R 107	RS1/16S222J	C 56	CKSQYB104K16
R 152	RS1/16S393J	C 57	CKSRYB472K50
R 155	RS1/16S393J	C 58	CEJA330M10
R 157	RS1/10S223J	C 59	CKSRYB103K25
R 160	RS1/16S222J	C 61	CCSRCH270J50
R 161	RS1/16S563J	C 62	CKSRYB103K25
R 162	RS1/16S225J	C 63	CEJA22M50
R 163	RS1/16S222J	C 65	CKSQYB104K16
R 164	RS1/16S823J	C 101	CEJANP100M10
R 165	RS1/16S102J	C 102	CKSRYB182K50
R 201	RS1/16S103J	C 103	CKSQYB682K50
R 202	RS1/16S103J	C 104	CEJA2R2M50
R 203	RS1/16S225J	C 105	CKSRYB103K25
R 204	RS1/16S472J	C 106	CCSRCH151J50
R 205	RS1/16S471J	C 107	CKSRYB103K25
R 206	RS1/16S220J	C 151	CKSRYB562K25
R 207	RS1/16S101J	C 152	CKSQYB104K16
R 208	RS1/16S102J	C 153	CEJA3R3M50
R 214	RS1/16S563J	C 154	CKSQYB104K16
R 215	RS1/16S393J	C 157	CEJA3R3M50
R 230	RS1/16S0R0J	C 158	CKSYB474K16
R 231	RS1/16S242J	C 159	CEJA220M6R3
R 232	RS1/16S473J	C 160	CKSQYB104K16
R 237	RS1/16S103J	C 161	CKSQYB104K16
R 238	RS1/16S104J	C 162	CEJA3R3M50
R 239	RS1/16S104J	C 163	CKSRYB102K50
R 240	RS1/16S103J	C 165	CCSRCH100D50
R 241	RS1/16S202J	C 201	CKSRYB103K25
R 243	RS1/16S123J	C 202	CCSRCH100D50
R 244	RS1/16S103J	C 203	CKSRYB332K50
R 246	RS1/16S0R0J	C 204	CKSQYB473K16
R 247	RS1/10S303J	C 205	CKSQYB473K16
R 248	RS1/16S0R0J	C 206	CKSRYB103K25
R 250	RS1/16S0R0J	C 207	CCSRCH120J50
CAPACITORS		C 211	CCSRCH560J50
C 1	CCSRCH220J50	C 212	CEJA101M10
C 2	CKSRYB222K50	C 213	CKSRYB103K25
C 3	CCSRCH4R0D50	C 215	CCSRCH680J50
C 5	CKSRYB222K50	C 216	CCSRCH101J50
C 6	CKSQYB473K16		

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
C 217	CEJA1R0M50	T 31	Coil
C 219	CKSRYB223K25	T 231	Coil
C 220	CKSRYB103K25	CF 25	Ceramic Filter
C 221	CKSRYB103K25	CF 51	Ceramic Filter
C 230	CKSQYB104K16	CF 52	Ceramic Filter
C 231	CCSRCH330J50	CF 53	Ceramic Filter
C 232	CCSRCH150J50	CF 230	Crystal Filter
C 233	CKSRYB103K25	CF 232	Ceramic Filter
C 234	CEJA330M10	X 151	Radiator 918.5Hz
C 235	CKSRYB332K50	X 231	Crystal Resonator 10.26MHz
C 236	CKSQYB473K16	VR 101	Semi-fixed 15kΩ(B)
C 237	CCSRTH180J50	VR 151	Semi-fixed 10kΩ(B)
C 239	CKSRYB103K25	VR 154	Semi-fixed 150kΩ(B)
C 240	CKSYB104K16	VR 156	Semi-fixed 68kΩ(B)
C 241	CKSQYB104K16		
C 242	CEJAR47M50		
C 243	CKSQYB334K16		
C 244	CKSQYB473K16		
C 245	CKSQYB103K25		
C 250	CCSRCJ3R0C50		

**C** Unit Number : CWE1457 (KEX-M8396ZT-02/ES)  
Unit Name : Tuner Unit

#### MISCELLANEOUS

IC 1	IC	PA4026A
IC 2	IC	PA4024A
Q 1	Transistor	2SC2712
Q 3	FET	3SK263
Q 31	Transistor	2SC2712
Q 151	Transistor	DTC124EU
Q 201	Transistor	FC12
Q 203	Transistor	DTC124EU
Q 204	Transistor	DTC124EU
Q 205	Transistor	DTC124EU
Q 206	Transistor	2SC4116
Q 231	Transistor	2SC4116
D 3	Diode	1SV251
D 4	Diode	1SV250
D 5	Diode	KV1410-F1
D 6	Diode	MA157
D 7	Diode	KV1410-F1
D 8	Diode	KV1410-F1
D 201	Diode	MA157
D 202	Diode	1SV251
D 203	Diode	MA141WA
D 204	Diode	MA110
D 205	Diode	MA110
D 231	Diode	KV1590
L 1	Inductor	LCTBR12K2125
L 2	Coil	CTC1145
L 3	Inductor	LCTB4R7K2125
L 4	Coil	CTC1131
L 5	Coil	CTC1147
L 51	Ferri-Inductor	LAU150K
L 52	Coil	CTC1136
L 201	Inductor	LAU3R3K
L 202	Ferri-Inductor	LAU4R7K
L 203	Inductor	CTF1371
L 205	Inductor	LCTB3R3K2125
L 206	Inductor	LCTB4R7K2125
L 207	Inductor	LCTB120K2125
L 208	Inductor	LAU180K
L 209	Inductor	LAU120K
L 210	Coil	CTB1103

#### RESISTORS

R 3	RS1/16S223J
R 4	RS1/16S101J
R 5	RS1/16S181J
R 6	RS1/16S101J
R 7	RS1/10S331J
R 8	RS1/16S473J
R 9	RS1/16S473J
R 10	RS1/16S223J
R 11	RS1/16S124J
R 12	RS1/16S474J
R 15	RS1/16S271J
R 16	RS1/16S104J
R 17	RS1/16S473J
R 18	RS1/16S473J
R 19	RS1/16S154J
R 27	RS1/16S0R0J
R 31	RS1/16S470J
R 32	RS1/16S912J
R 33	RS1/16S912J
R 34	RS1/16S331J
R 35	RS1/16S331J
R 39	RS1/16S0R0J
R 51	RS1/16S331J
R 55	RS1/16S102J
R 56	RS1/16S823J
R 61	RS1/16S392J
R 62	RS1/16S273J
R 103	RS1/16S333J
R 104	RS1/16S334J
R 105	RS1/16S683J
R 107	RS1/16S222J
R 152	RS1/16S393J
R 155	RS1/16S393J
R 157	RS1/10S203J
R 160	RS1/16S222J
R 161	RS1/16S563J
R 162	RS1/16S225J
R 163	RS1/16S222J
R 165	RS1/16S102J
R 201	RS1/16S471J
R 202	RS1/16S182J
R 204	RS1/16S103J
R 205	RS1/16S471J
R 206	RS1/16S220J
R 207	RS1/16S162J
R 208	RS1/16S0R0J
R 210	RS1/16S104J
R 211	RS1/16S103J
R 212	RS1/16S104J
R 213	RS1/16S103J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 214	RS1/16S563J	C 103	CKSQYB682K50
R 215	RS1/16S473J	C 104	CEJA2R2M50
R 216	RS1/16S104J	C 105	CKSRYB103K25
R 217	RS1/16S393J	C 106	CCSRCH151J50
R 231	RS1/16S242J	C 107	CKSRYB103K25
R 232	RS1/16S473J	C 151	CKSRYB392K50
R 234	RS1/16S473J	C 152	CKSQYB104K16
R 235	RS1/16S472J	C 153	CEJA3R3M50
R 237	RS1/16S103J	C 154	CKSQYB104K16
R 238	RS1/16S104J	C 157	CEJA3R3M50
R 239	RS1/16S104J	C 158	CKSYB474K16
R 240	RS1/16S472J	C 159	CEJA220M6R3
R 241	RS1/16S202J	C 160	CKSQYB104K16
R 243	RS1/16S123J	C 161	CKSQYB104K16
R 244	RS1/16S103J	C 162	CEJA3R3M50
R 245	RS1/16S0R0J	C 163	CKSRYB102K50
R 246	RS1/16S0R0J	C 165	CCSRCH100D50
R 247	RS1/10S153J	C 201	CKSRYB103K25
R 248	RS1/16S473J	C 202	CCSRCH180J50
R 249	RS1/16S0R0J	C 203	CKSRYB332K50
CAPACITORS		C 204	CKSQYB473K16
C 1	CCSRCH220J50	C 205	CKSQYB473K16
C 2	CKSRYB222K50	C 206	CKSQYB103K25
C 3	CCSRCH6R0D50	C 207	CCSRCH120J50
C 5	CKSRYB222K50	C 208	CCSRCH180J50
C 6	CKSQYB473K16	C 209	CCSRCH470J50
C 7	CKSQYB473K16	C 210	CCSRCH470J50
C 8	CKSQYB104K16	C 211	CCSRCH270J50
C 9	CCSRCJ3R0C50	C 212	CEJA101M10
C 10	CEJA1R0M50	C 213	CKSRYB103K25
C 11	CCSRCH470J50	C 215	CCSRCH470J50
C 12	CCSRCH820J50	C 216	CCSRCH100D50
C 13	CKSRYB222K50	C 217	CEJAR47M50
C 14	CCSRCH4R0D50	C 218	CKSRYB102K50
C 15	CCSRCH7R0D50	C 219	CCSRCH101J50
C 16	CCSRCH120J50	C 220	CKSRYB103K25
C 17	CKSRYB222K50	C 221	CKSRYB103K25
C 18	CKSRYB103K25	C 222	CCSRCH180J50
C 19	CKSRYB222K50	C 230	CKSQYB104K16
C 20	CKSRYB222K50	C 231	CCSRCH330J50
C 21	CEJA100M16	C 232	CCSRCH150J50
C 22	CCSRRH100D50	C 233	CKSRYB103K25
C 23	CCSRRH120J50	C 234	CEJA330M10
C 24	CKSRYB103K25	C 235	CKSRYB332K50
C 30	CCSRRH201J50	C 236	CKSQYB473K16
C 31	CKSRYB103K25	C 237	CCSRCH8R0D50
C 32	CKSQYB473K16	C 238	CCSRCH181J50
C 33	CCSRCK2R0C50	C 239	CKSRYB103K25
C 35	CCSRCH270J50	C 240	CKLSR104K16
C 36	CCSRCH120J50	C 241	CKSQYB104K16
C 40	CKSRYB222K50	C 242	CEJAR47M50
C 41	CKSQYB104K16	C 243	CEJAR33M50
C 51	CKSRYB223K25	C 244	CKSQYB473K16
C 52	CKSRYB103K25	C 245	CKSQYB103K25
C 54	CCSRCH470J50	C 250	CCSRCJ3R0C50
C 55	CKSQYB223K25		
C 56	CKSQYB104K16		
C 57	CKSRYB472K50		
C 58	CEJA330M10		
C 59	CKSRYB103K25		
C 61	CCSRCH270J50		
C 62	CKSRYB103K25	IL 1903	Lamp 8V 60mA
C 63	CEJAR22M50	IL 1904	Lamp 8V 60mA
C 65	CKSQYB104K16	IL 1906	Lamp 8V 60mA
C 101	CEJANP100M10	IL 1907	Lamp 8V 60mA
C 102	CKSRYB182K50	IL 1908	Lamp 8V 60mA



Unit Number: CWM6073  
(KEX-M8196ZT/UC)  
: CWM7070  
(KEX-M8396ZT-02/UC)  
Unit Name : Keyboard Unit

## MISCELLANEOUS

IL 1903	Lamp 8V 60mA	CEL1464
IL 1904	Lamp 8V 60mA	CEL1464
IL 1906	Lamp 8V 60mA	CEL1492
IL 1907	Lamp 8V 60mA	CEL1492
IL 1908	Lamp 8V 60mA	CEL1492

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
IL 1909 Lamp 8V 60mA	CEL1492	R 278	RS1/16S104J
IL 1910 Lamp 8V 60mA	CEL1492	R 281	RS1/8S0R0J
IL 1911 Lamp 8V 60mA	CEL1464	R 282	RS1/8S0R0J
IL 1912 Lamp 8V 60mA	CEL1464	R 283	RS1/8S0R0J
IL 1913 Lamp 8V 60mA	CEL1464	R 284	RS1/8S0R0J
IL 1914 Lamp 8V 60mA	CEL1464	R 285	RS1/16S0R0J
IL 1915 Lamp 8V 60mA	CEL1464	R 286	RS1/16S0R0J
VR 1901 Volume 50kΩ(B)	CCS1226	R 287	RS1/16S0R0J
		R 288	RS1/16S0R0J
		R 289	RS1/16S0R0J
RESISTORS			
R 1901	RS1/8S150J	R 290	RS1/8S0R0J
R 1902	RS1/4S150J	R 301	RS1/16S223J
R 1903	RS1/4S150J	R 302	RS1/16S223J
R 1904	RS1/8S150J	R 303	RS1/16S561J
		R 304	RS1/16S561J
<b>E</b> Unit Number : CWM6074		R 321	RS1/8S223J
(KEX-M8196ZT/UC)		R 322	RS1/8S223J
: CWM7071		R 351	RS1/16S102J
(KEX-M8396ZT-02/ES)		R 352	RS1/16S102J
Unit Name : LCD Unit		R 353	RS1/16S102J
MISCELLANEOUS			
IC 1902 IC	LC75821W	R 354	RS1/16S102J
IL 1901 Lamp 8V 80mA	CEL1633	R 355	RS1/10S274J
IL 1902 Lamp 8V 80mA	CEL1633	R 356	RS1/10S202J
LCD	CAW1528	R 357	RS1/10S472J
		R 358	RS1/10S103J
RESISTORS		R 359	RS1/10S103J
R 1902	RS1/10S473J	R 360	RS1/10S102J
R 1904	RS1/10S102J	R 361	RS1/10S622J
R 1906	RS1/10S102J	R 373	RS1/8S0R0J
R 1908	RS1/10S102J	R 374	RS1/8S0R0J
R 1910	RS1/10S102J		
CAPACITORS		R 375	RS1/8S0R0J
C 1902	CCSQCH681J50	R 401	RS1/16S273J
C 1904	CKSQYB103K50	R 402	RS1/16S223J
C 1906	CKSQYB473K25	R 403	RS1/16S274J
C 1908	CKSQYB102K50	R 404	RS1/16S823J
		R 405	RS1/16S274J
<b>F</b> Unit Number : EWM1008		CAPACITORS	
Unit Name : Deck Unit		C 251	CKSRYB391K50
MISCELLANEOUS		C 252	CKSRYB391K50
IC 251 IC	HA12173-01	C 253	CKSRYB391K50
IC 351 IC	PA2020A	C 254	CKSRYB391K50
Q 271 Transistor	2SC4116	C 255	CKSRYB103K25
Q 351 Transistor	2SB1260	C 256	CKSRYB103K25
Q 352 Transistor	2SC4102	C 271	CEV1R0M50
		C 272	CKSQYB104K16
D 351 Diode	MA141K	C 301	CKSYB474K16
VR 301 Semi-fixed 33kΩ(B)	CCP1130	C 302	CKSYB474K16
VR 302 Semi-fixed 33kΩ(B)	CCP1130		
RESISTORS		C 303	CKSRYB222K50
R 255	RS1/16S181J	C 304	CKSRYB222K50
R 256	RS1/16S181J	C 305	CKSRYB222K50
R 257	RS1/16S183J	C 306	CKSRYB222K50
R 258	RS1/16S183J	C 307	CKSRYB222K50
R 259	RS1/16S133J		
R 260	RS1/16S133J	C 308	CKSRYB222K50
R 261	RS1/16S274J	C 309	CKSQYB104K16
R 262	RS1/16S274J	C 310	CKSQYB104K16
R 271	RS1/16S183J	C 311	CKSQYB104K16
R 272	RS1/8S223J	C 312	CKSQYB104K16
R 273	RS1/8S223J		
R 274	RS1/8S103J	C 322	CEV100M16
R 275	RS1/16S473J	C 351	CKSYB224K25
R 276	RS1/16S104J	C 352	CKSQYB392K50
R 277	RS1/16S224J	C 353	CKSQYB103K50
		C 354	CKSQYB103K50



====Circuit Symbol and No.====Part Name	Part No.
C 355	CKSYB104K50
C 356	CKSQYB103K50
C 401	CKSRYB182K50
C 402	CKSRYB822K25
C 403	CKSRYB333K16
C 404	CKSRYB471K50

**G** Unit Number :  
Unit Name : PCB Unit

L 1	Inductor	ETH0001
S 1	Switch(Load)	ESG1004
S 2	Switch(70μS)	ESG1004
EGN 1	Photo-Interruptor	EGN1005
R 1		RD1/4HM181J

**H** Unit Number :  
Unit Name : Reel PCB

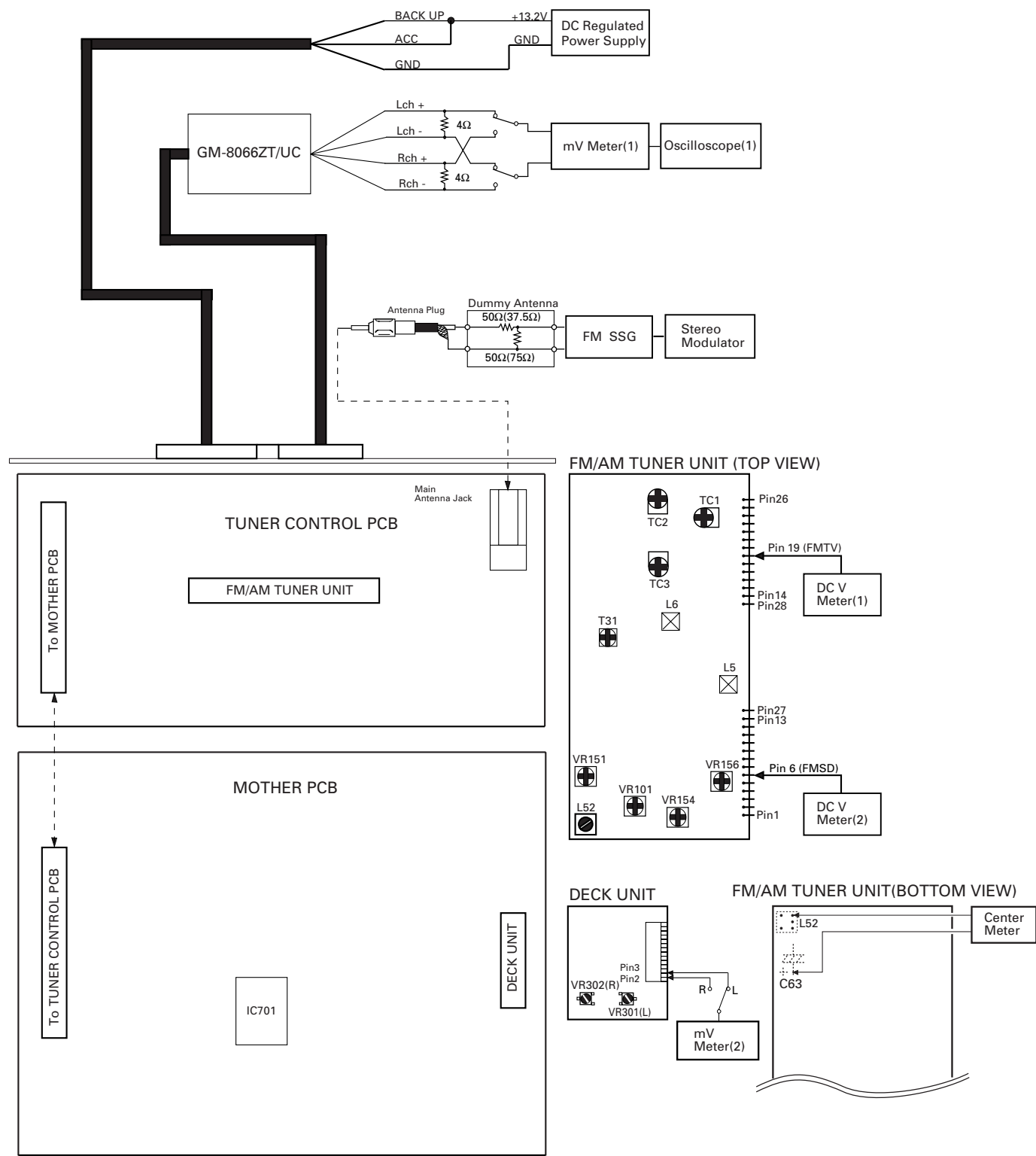
EGN 2	Photo-Reflector	EGN1004
EGN 3	Photo-Reflector	EGN1004

Miscellaneous Parts List

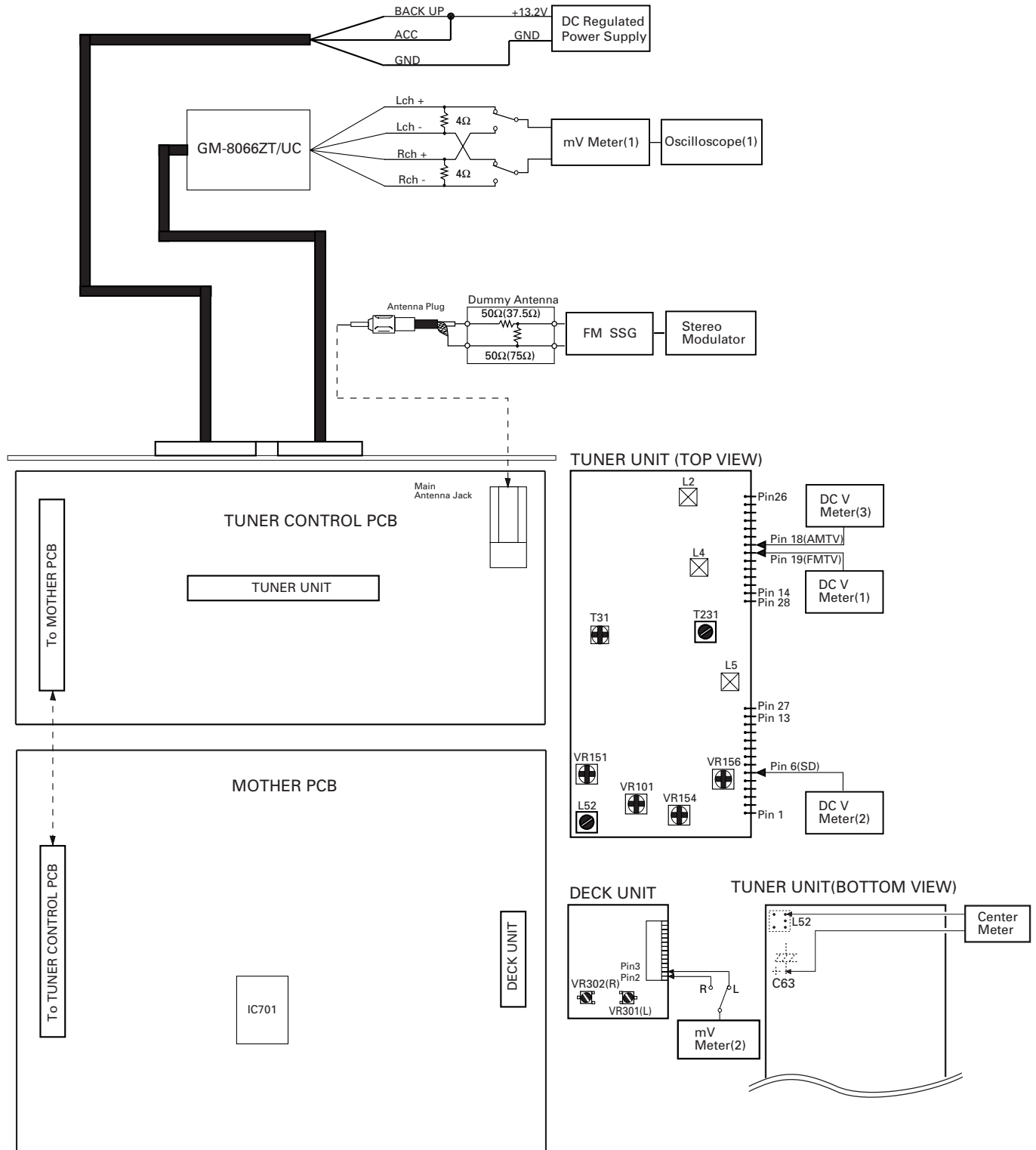
M 1	Motor Unit(Main)	EXA1497
M 2	Motor Unit(Sub)	EXA1485
HD 1	Head Assy	EXA1481
C 1		CEA4R7M35LS2

6. ADJUSTMENT

● Connection Diagram (KEX-M8196ZT/UC)



● Connection Diagram (KEX-M8396ZT-02/ES)



### FM ADJUSTMENT (KEX-M8196ZT/UC)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	.....	.....	107.9	L5	DC V Meter(1) : 6V
Center Meter	1	98.1 M	65-85	98.1	L52	Center Meter : 0
IFT	1	98.1 M	5-15	98.1	T31	mV Meter(1) : Maximum
ANT Trimmer	1	98.1 M	5-15	98.1	TC1,TC2	mV Meter(1) : Maximum
RF Coil	1	89.9 M	5-15	89.9	L6	mV Meter(1) : Maximum
RF Trimmer	1	106.1 M	5-15	106.1	TC3	mV Meter(1) : Maximum
Repeat steps RF Coil and RF Trimmer until the adjustment standards are satisfied.						
Separation	1	98.1 S	65	98.1	VR101	mV Meter(1) : Maximum
ARC Separation	1	98.1 S	38	98.1	VR154	mV Meter(1) : Separation 5dB
Interstation	1	98.1 M	65	98.1	—	mV Meter(1) : AdB
Noise	2	98.1 M	-∞	98.1	VR151	mV Meter(1) : A-20dB
Search	1	98.1 M	33	98.1	VR156	DC V Meter(2) : more than 3.5V
Sensitivity	2	98.1 M	32	98.1	VR156	DC V Meter(2) : 0
	3	Repeat steps 1 and 2 until the adjustment standards are satisfied.				

### FM ADJUSTMENT (KEX-M8396ZT-02/ES)

	No.	FM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	.....	.....	108.0	L5	DC V Meter(1) : 6.5V
Center Meter	1	98.1 M	65-85	98.1	L52	Center Meter : 0
IFT	1	98.1 M	5-15	98.1	T31	mV Meter(1) : Maximum
ANT Coil	1	89.9 M	5-15	89.9	L2	mV Meter(1) : Maximum
RF Coil	1	89.9 M	5-15	89.9	L4	mV Meter(1) : Maximum
Separation	1	98.1 S	65	98.1	VR101	mV Meter(1) : Maximum
ARC Separation	1	98.1 S	40	98.1	VR154	mV Meter(1) : Separation 5dB
Interstation	1	98.1 M	65	98.1	—	mV Meter(1) : AdB
Noise	2	98.1 M	-∞	98.1	VR151	mV Meter(1) : A-20dB
Search	1	98.1 M	27	98.1	VR156	DC V Meter(2) : more than 3.5V
Sensitivity	2	98.1 M	26	98.1	VR156	DC V Meter(2) : 0
	3	Repeat steps 1 and 2 until the adjustment standards are satisfied.				

### SW2 ADJUSTMENT (KEX-M8396ZT-02/ES)

	No.	AM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	.....	.....	21.975	T231	DC V Meter(3) : 6.0V

**DOLBY B/C NR ADJUSTMENT**

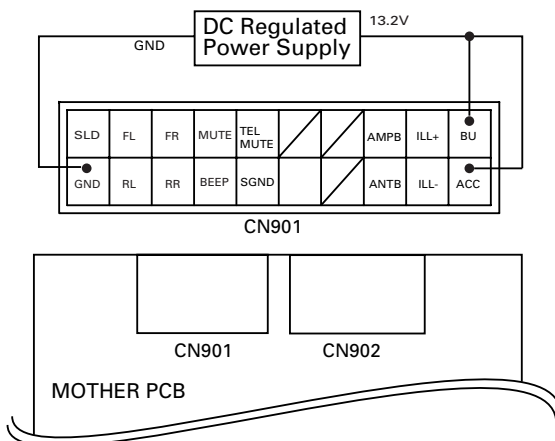
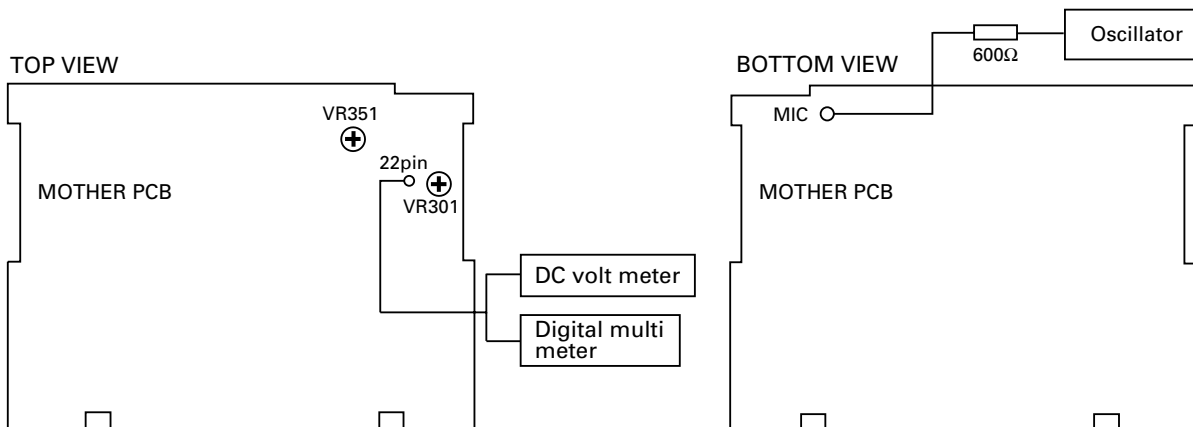
No.	Test Tape	Adjustment Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz,200nwb/m)	VR301(Lch),VR302(Rch)	mV Meter(2) : $-8.24\text{dBs}+1.5\text{dB}, -0.5\text{dB}$ (DOLBY NR Switch : OFF)

**ASL ADJUSTMENT**

Preset conditions

- Set VR301 and VR351 around the center of the adjustable range.
- Ground pins 3 and 16 of IC301.

Step No.	Input (MIC)	Output (Pin 22 of IC301)	Adjustment		
			Adj.point	Spec.	Conditions
1	By using an oscillator, apply a sine wave of 7Hz/2.0mV to the MIC terminal (+) via a 600-ohm resistor.	Observe the output at Pin 22 on a DC voltmeter (pointer-type).	VR351	$1.8\pm0.3\text{V}$	Pin 16:Ground Pin 3:Open Wait for 20 seconds.
2	By using an oscillator, apply a sine wave of 7Hz/20mV to the MIC terminal (+) via a 600-ohm resistor.	Observe the output at Pin 22 on a digital multimeter.	VR301	$5.2\pm0.1\text{V}$	Pin 16:Ground Pin 3:Ground
3	Repeat Steps 1 and 2 until both adjustments satisfy the specifications.				
4	By using the jig(CAN-906,CAN-912), apply a sine wave of 100dB-SPL voltage directly to the MIC terminal.	Observe the output at Pin 22 on a digital multimeter.	VR351	$5.2\pm0.1\text{V}$	Pin 16:Ground Pin 3:Ground
5	End				



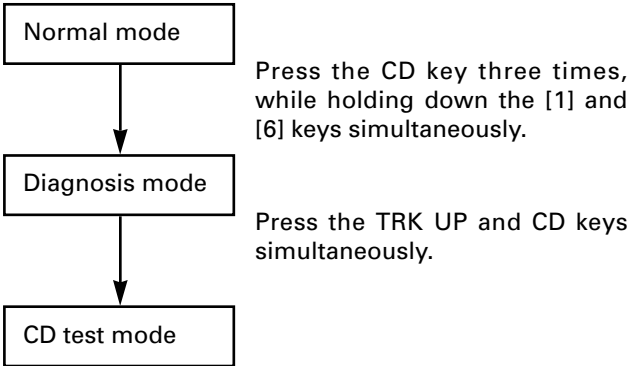
7. GENERAL INFORMATION

7.1 TEST MODE

Test mode is mainly used adjustment of CDX-M8066ZT/WL.  
a) CD multi-player

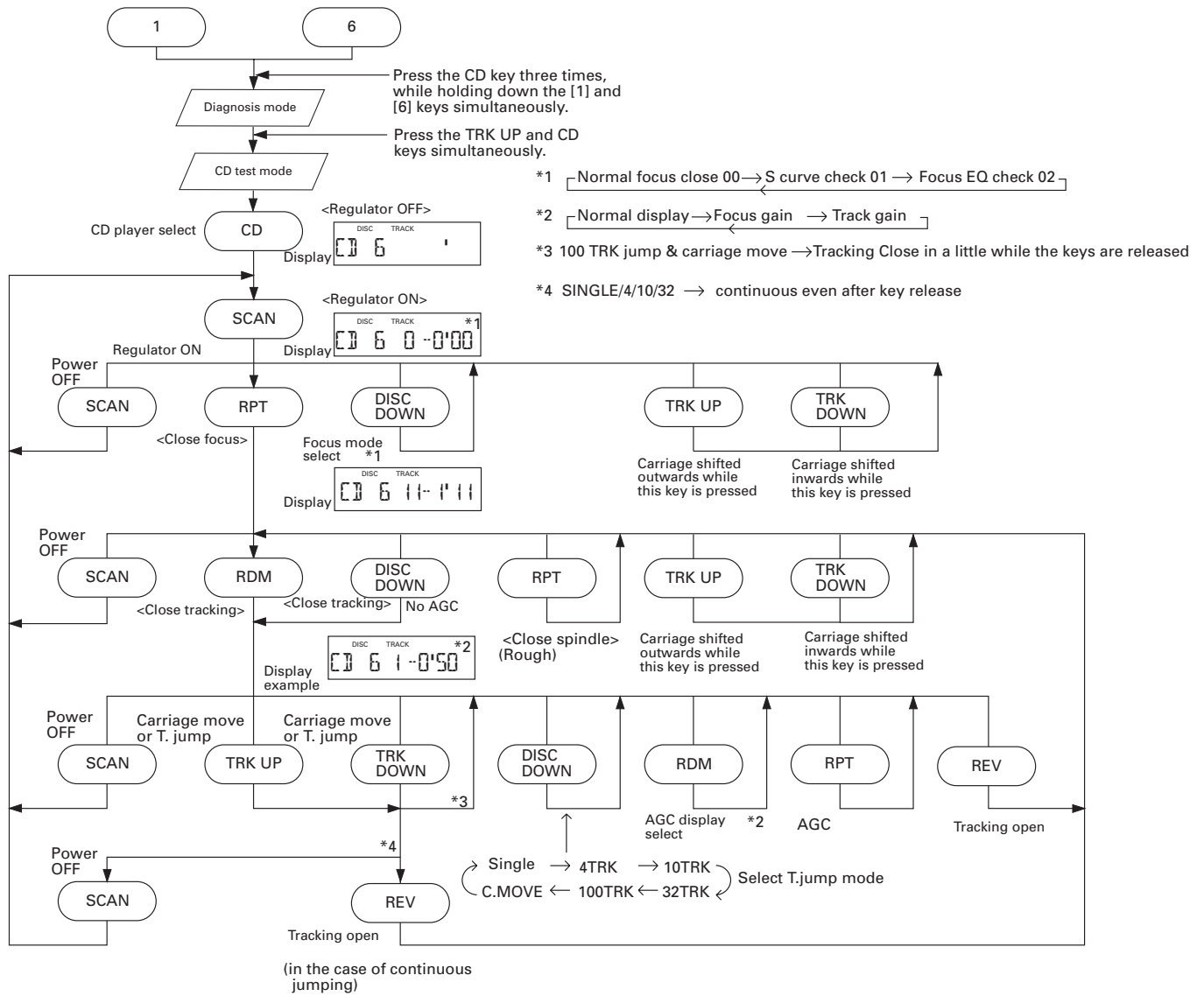
	Function
SCAN	Power ON/OFF
TRK UP	FWD kick
TRK DOWN	REV kick
RDM	Tracking close
REV	Tracking open
RPT	Focus close

- Switching to test mode



- Canceling test mode  
Switch the ACC off.
- SINGLE/10TRK/32TRK will continue to operate even after the key is released.Tracking closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

# ● Flow Chart



## 7.2. ERROR NUMBERS INDICATION

If the CD should fail to operate in CD multi player or if an error has taken place during the operation and resulted in an error, the player will enter into the error mode. And the cause of such error is numerically indicated.

This is aimed at assisting an analysis or repair.

Error mode ..... Mode (A), Mode (B)

### (1) Examples of Display

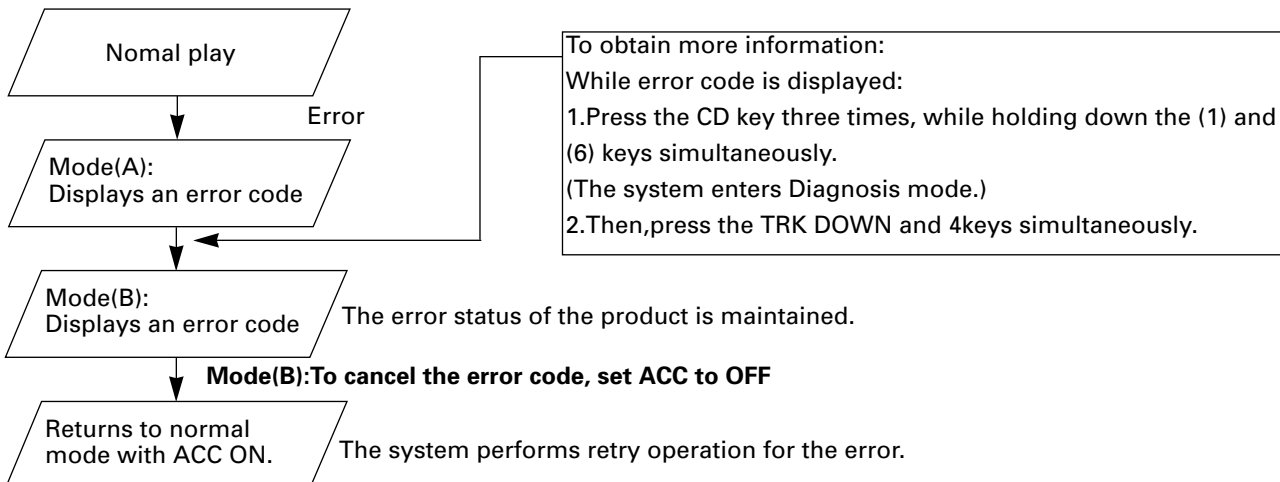
- Mode (A) ..... ERR-X
- Mode (B) ..... ERR-XX

### (2) Error Codes

*1	*2	Classification	Description	Cause/Detail
1	10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
	11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
	12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
	14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
	17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
	30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
4	A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal
	50	MECHANISM	An error upon ejection	MAG switch release time has time out Elevation time out when eject
3	60	MECHANISM	An error while putting in and out the tray	Tray in / out time has time out Tray is caught when put in
	70	MECHANISM	An error upon elevation	Elevation time has time out
2	80	MECHANISM	An error with an empty magazine inserted	No disc is available

• \*1 ..... Mode (A) error code

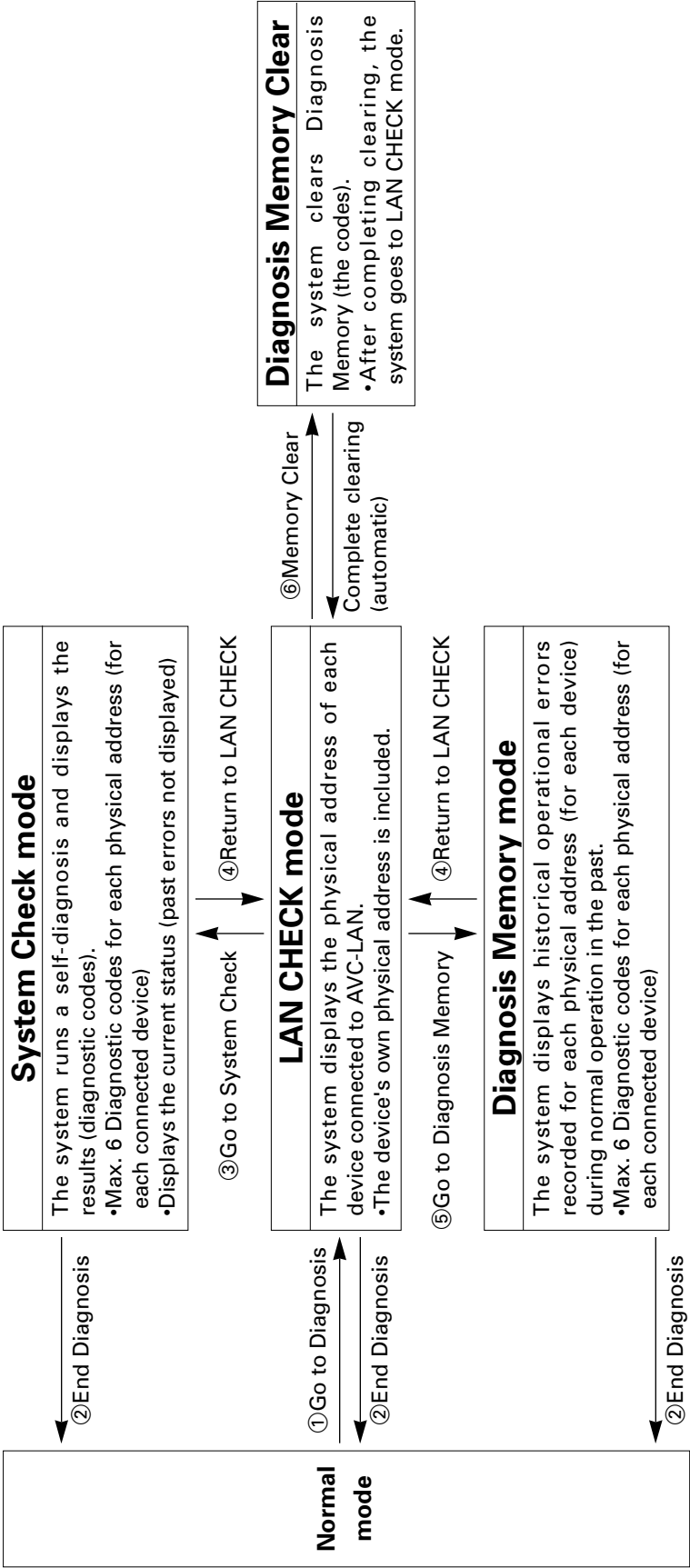
• \*2 ..... Mode (B) error code





7.3 DIAGNOSIS  
7.3.1 DIAGNOSIS MODE

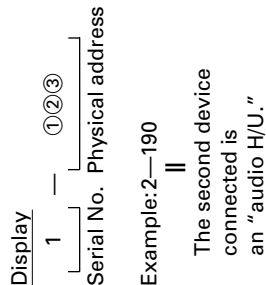
● Flowchart and Functions



● Operation Specifications

	KEX-M8196ZT/UC, M8396ZT-02/ES
①Go to Diagnosis	Press the CD key three times, while holding down CH1 or CH6.
②End Diagnosis	CD key (Press and hold for 1.7 seconds.) ACC OFF/ON
③Go to System Check	CH1
④Return to LAN CHECK	CH6
⑤Go to Diagnosis Memory	CH2
⑥Memory Clear	CH5 (Press and hold for 1.7 seconds.)
•Page up	TUNE +
•Page down	TUNE -

## ● Physical Address Assignment



## ①Device groups

- 1 : Controllers  
2 : Video output devices  
3 : Audio output devices  
4 : Audio processing devices  
5 : Information output devices  
6 : Vehicle devices

[illegible][illegible][illegible][illegible][illegible][illegible]

## ● Assignment of Diagnostic Codes

Display															
1 — ①②															
Serial No.		Diagnostic code													
Example: 3 — D2															
The third content of Diagnosis is "No response to periodical communications."															
NOTES:															
*1 Instruction to check for an error in periodical communications is interrupted.															
● Items corresponding each model															
<During Diagnosis Memory mode>															
• KEX-M8196ZT/UC															
• KEX-M8396ZT-02/ES															
D1, D2, D4, FF, 50															
<During System Check mode>															
• KEX-M8196ZT/UC															
• KEX-M8396ZT-02/ES															
No Diagnostic code assigned 00															

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NO ERR	+B error	Microprocessor error			Cassette deck error	CD deck or CD-CH error	MD deck or MD-CH error	Amplifier error	EQ error	Switch error	AUDIO ECU error		No response to communications		
1		ACC error	ROM error		AM tuner error	Cassette deck EJT failure	CD, CH EJT failure	MD, CH ←						Communications failure		
2		MUTE error	RAM error		FM tuner error	Tape entangled in the cassette deck	Dirt, scar and upside-down in CD, CH	MD, CH ←						No response to periodical communications		
3						Dirt in cassette deck head	Detected P.U temperature in CD, CH	MD, CH ←								
4						Broken cassette deck belt	Detected overcurrent in CD, CH	MD, CH ←						*1		
5					TV tuner error			MD, CH recording function error								
6																
7							CH tray error									
8							CH elevator error	CH ←	DSP error	LCD error	Antenna error					
9							CD, CH clamp error	MD, CH ←			Main antenna error					
A											Sub antenna error					
B											TV antenna error					
C											Antenna selector error					
D/E																No response to Diagnosis
F																

②

Common Diagnostic code among devices

Diagnostic code specific to a particular device

Diagnostic code for communications

Common Diagnostic code among devices

Diagnostic code specific to a particular device

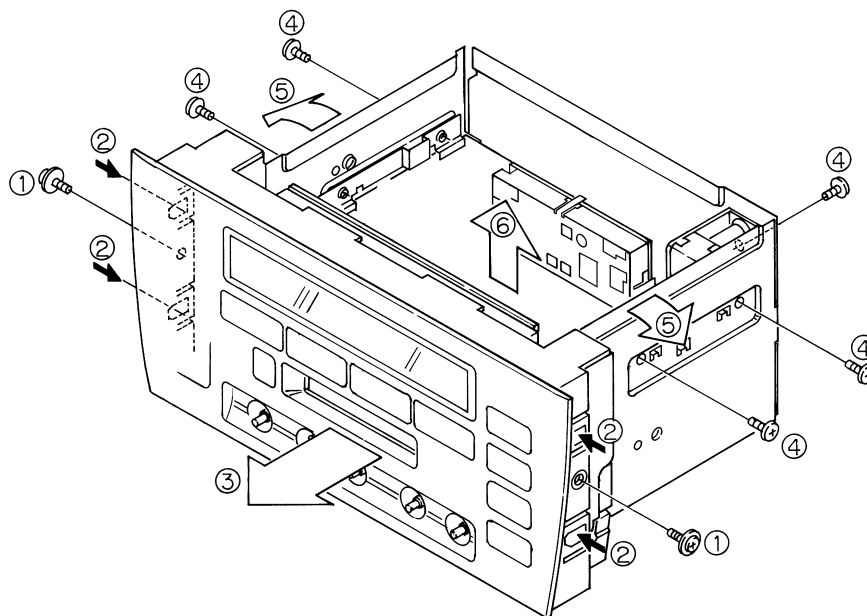
Diagnostic code for communications

● Go to Diagnosis (Beep and Display)

	LAN-CHECK mode	System Check mode	Diagnosis Memory mode
Beep	<ul style="list-style-type: none"><li>The system beeps three times when starting up Diagnosis.</li></ul>	<ul style="list-style-type: none"><li>The system beeps three times when changing to another mode.</li><li>The system beeps once every time a physical address is displayed.</li></ul>	<ul style="list-style-type: none"><li>The system beeps three times when changing to another mode.</li><li>The system beeps once every time a physical address is displayed.</li></ul>
Display	<ul style="list-style-type: none"><li>The system displays the physical address of each device connected to AVC-LAN in sequence from the lowest address.  Example: 1    —    1E0                     Serial No.    Physical address                     (CD commander)</li></ul>	<ul style="list-style-type: none"><li>When changing to another mode Blinking "SYS" is displayed.</li><li>After completing System Check Displays a physical address. ••Identifies the device. Example: H    150                     └ Physical address (1DIN-TV)                     Distinguishes from LAN-CHECK.</li><li>Displays a Diagnostic code. ••Identifies the type of error. Example: 1    —    d2                     Serial No.    Diagnostic code                     └ (no response to periodical communications)                     Max. 6 for each physical address</li><li>Displays an auxiliary code ••Identifies the device involved in the error. Example: 1    —    360                     Serial No.    Physical address (CD-CH)</li><li>1DIN-TV has recorded an error indicating there is no response to periodical communications in CD-CH. 1    —    —                     When there is no physical address:</li></ul> <p>Displays a physical address. The next lowest physical address</p> <ul style="list-style-type: none"><li>When there is no Diagnostic code after completion of System Check                     00</li></ul> <p>The system changes as shown above, as this unit does not include System Check.</p>	<ul style="list-style-type: none"><li>When changing to another mode Blinking "CODE" is displayed.</li><li>Then, "Latest periodical communications number" is displayed. ••Elapsed time at the current point is displayed. Example:    —    1F                     Elapsed time (31 minutes)</li><li>The system displays a number from 00 to FF (increases a digit every minute).</li><li>When 256 minutes are reached, the system returns to 00.</li><li>Displays the details of Diagnosis. Displays a physical address. (Same as the left.) Displays a periodical communications number. ••Displays the time when the error occurred. Example: 1    —    02                     Serial No. Elapsed time (2 minutes) Displays Diagnostic code. (Same as the left.) Displays an auxiliary code. (Same as the left.) Displays a physical address.</li><li>When there is no Diagnostic data:                     00</li></ul>

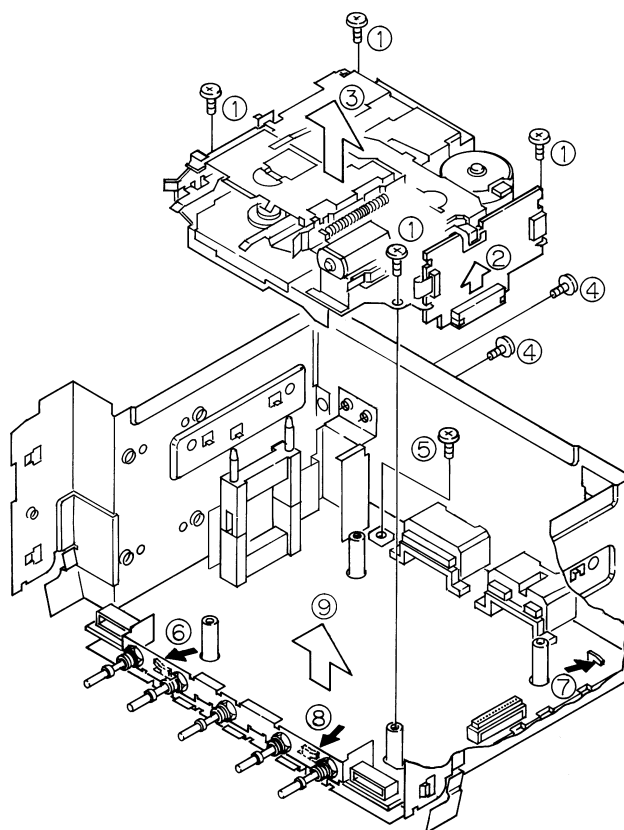
### 7.3.2 DISASSEMBLY

NOTE : Remove in the order of the circled numbers in the disassembly diagram.

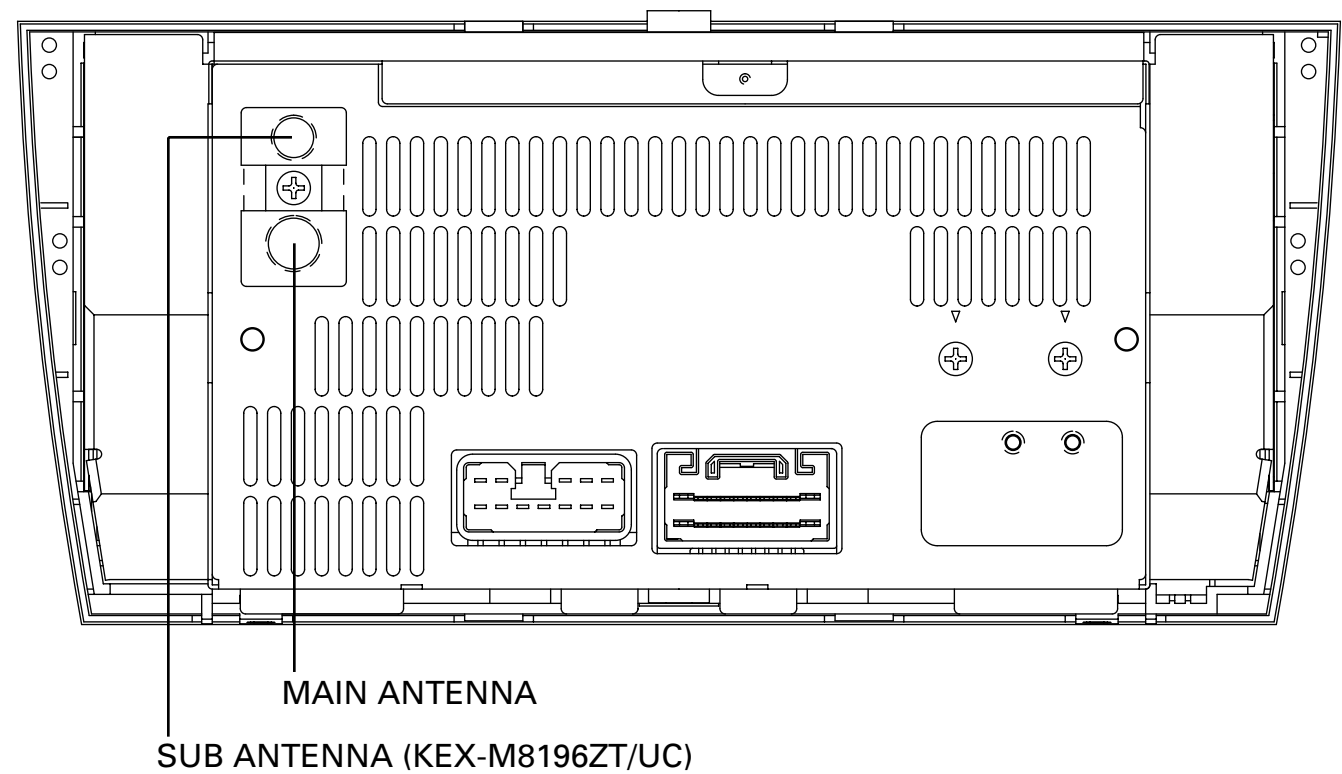


NOTE : The temperature of the screw on the right side of the rear panel rises.

- The cassette mechanism will not come off unless the grille is removed.
- The main volume knob may be removed easily if it is pulled off from the reverse side.



7.3.3 CONNECTOR FUNCTION DESCRIPTION



	MUTE			GND	(+) CDL	(+) CDR
		(-) TX	(+) TX		(-) CDL	(-) CDR

SLD	FL	FR	MUTE	TEL-MUTE		AMPB	ILL+	BU
GND	RL	RR	BEEP	SGND		ANTB	ILL-	ACC

## 7.4 PARTS

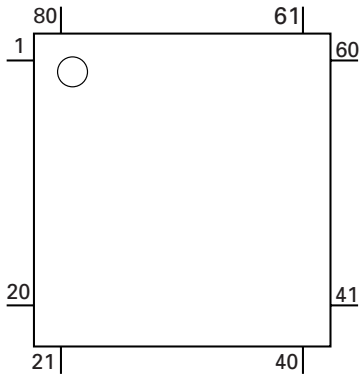
### 7.4.1 IC

#### ● Pin Functions (PE5009A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	BAL			A/D converter input from BALANCE volume
2	FAD			A/D converter input from FADER volume
3	ASL			A/D converter input from ASL noise detection
4	AVSS			A/D converter ground potential
5	SDIN	I		Tuner SD detect input
6	PLCE	O	C	Chip select output for PLL IC
7	AVREF1			(D/A converter reference voltage)
8	PLDI	I		Serial data input from PLL IC
9	PLDO	O	C	Serial data output for PLL IC
10	PLCK	O	C	Serial clock output for PLL IC
11	TUNOFF	O	C	Tuner power control output
12	LDO	O	C	Serial data output for LCD driver
13	LCK	O	C	Serial clock output for LCD driver
14	LCDBL	O	C	LCD back light output
15	ILL	O	C	ILL output
16	LCE	O	C	Chip select output for LCD driver
17	LINH	O	C	Inhibit output for LCD driver
18	SYSPWR	O	C	System power control output
19	TAPEPWR	O	C	Tape power output
20-25	KST0-5	O	C	Key strobe output
26	NC			Not used
27-30	KD0-3	I		Key return input
31	MSIN	I		Cassette mechanism MS sense input
32	F/R	O	C	Cassette mechanism head forward/reverse select output
33	VSS			Grand potential
34	PLAY	O	C	Tape MS filter output
35	MTLIN	I		Cassette mechanism metal tape detect input
36	LOAD	I		Loading motor sense input
37	POS	I		Cassette mechanism position sense input
38	RES	I		Cassette mechanism reverse end sense input
39	NES	I		Cassette mechanism normal end sense input
40	SCO2	O	C	Cassette mechanism sub motor control output 2
41	SCO1	O	C	Cassette mechanism sub motor control output 1
42	CMO	O	C	Cassette mechanism capstan motor control output
43	STABY	O	C	Cassette mechanism driver stand-by control output
44	B/C	O	C	Cassette mechanism dolbyNR B/C select output
45	PEE	O	C	PEE sound output
46	NROUT	O	C	Cassette mechanism noise reduction output
47	VCK	O	C	Clock output for electronic volume
48	VDT	O	C	Data output for electronic volume
49	VST	O	C	Strobe pulse output for electronic volume
50	ANTB	O	C	Antenna power supply control output
51	AMP	O	C	Amp power supply control output
52	NC			Not used
53	SWDVDD	O	C	Switched VDD output
54	FM/AM	O	C	FM/AM select output
55	IPPWR	O	C	IE-BUS driver power output
56	IPDO	O	C	IE-BUS driver data output
57	IPDI	I		IE-BUS driver data input
58	NC			Not used
59	SYSMUTE	O	C	System mute output
60	RESET	I		System reset input
61	NC			Not used

Pin No.	Pin Name	I/O	Format	Function and Operation
62	ASENS	I		ACC power sense input
63	ISENS	I		Illumination sense input
64	BSENS	I		Back up power sense input
65,66	NC			Not used
67	EJECT	I		Eject key input
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	NC			Not used
73	TEST	I		Chip test mode detect input
74	AVDD			A/D converter analog power supply (VDD)
75	AVREF0			(A/D converter reference voltage input)
76	SL			Tuner signal level input
77	VOL			A/D converter input from POWER-VOL volume
78	BAS			A/D converter input from BASS volume
79	MID			A/D converter input from MID volume
80	TRE			A/D converter input from TREBLE volume

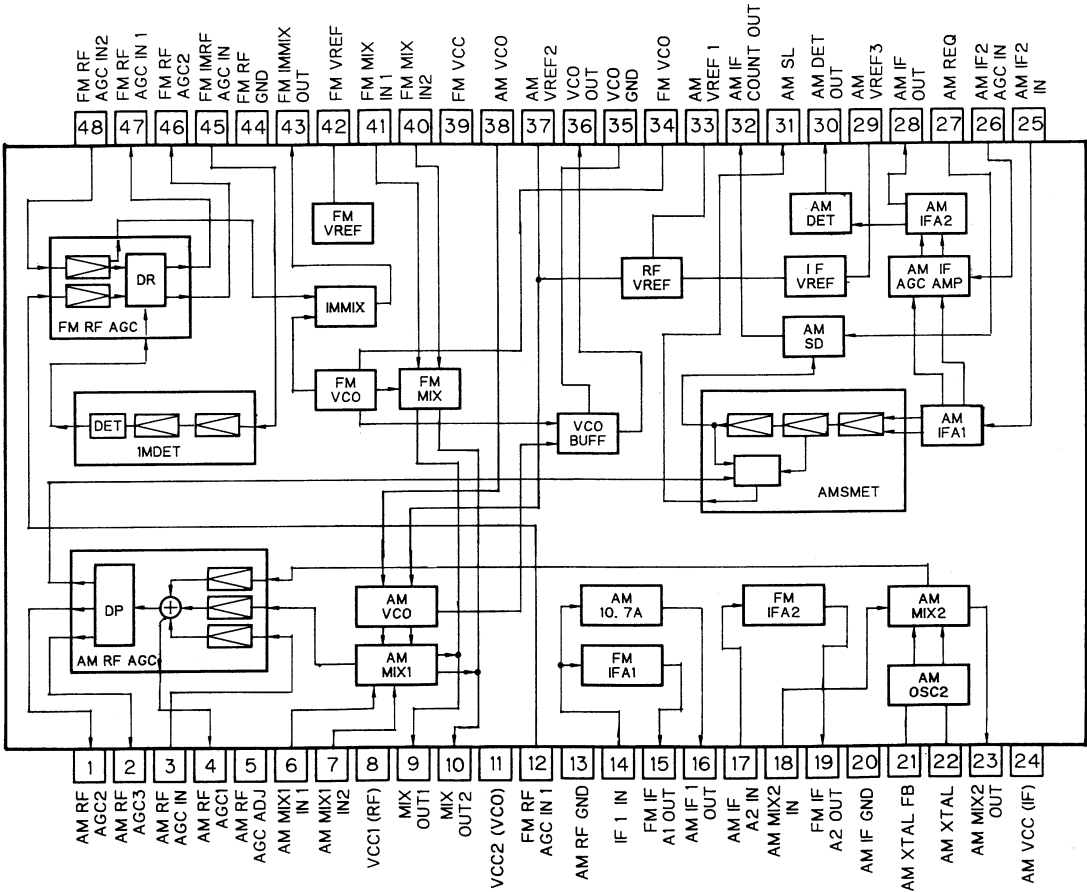
\*PE5009A



IC's marked by\* are MOS type.  
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

Format	Meaning
C	C MOS

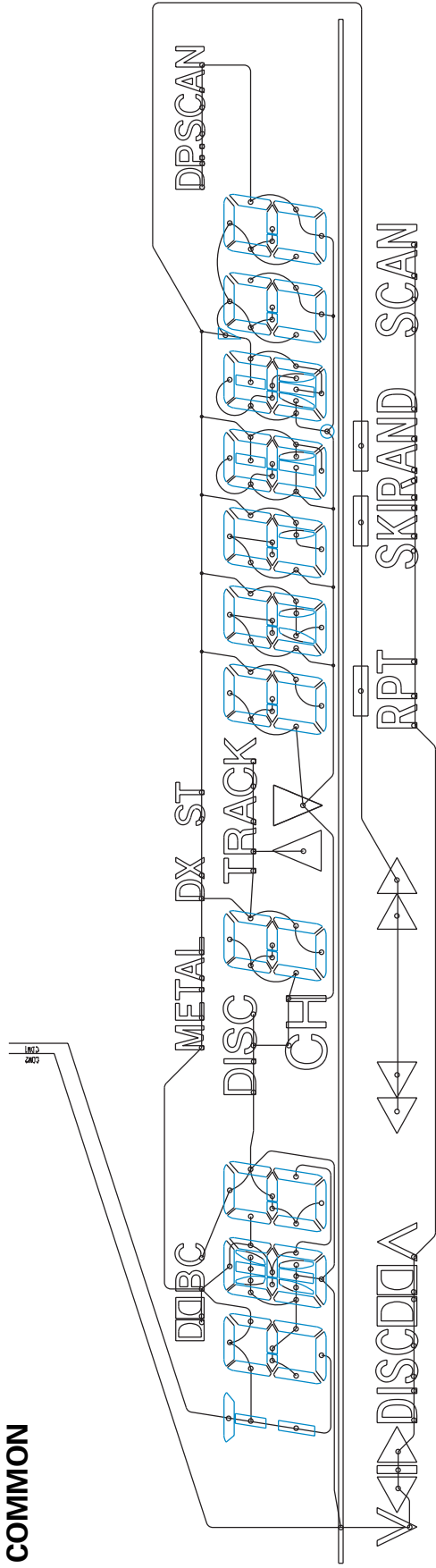
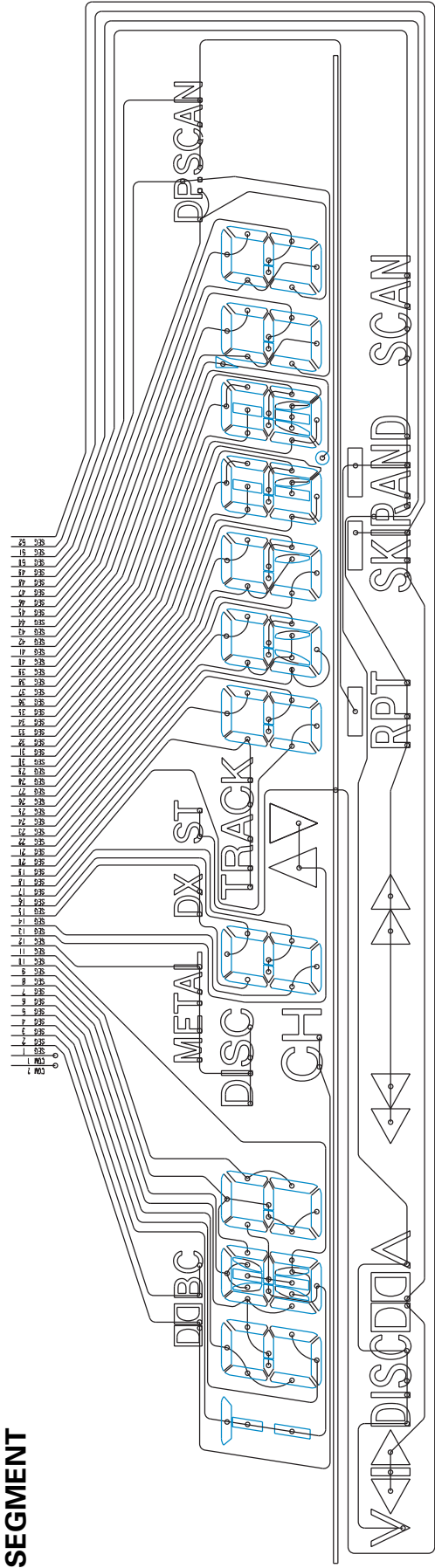
PA4026A



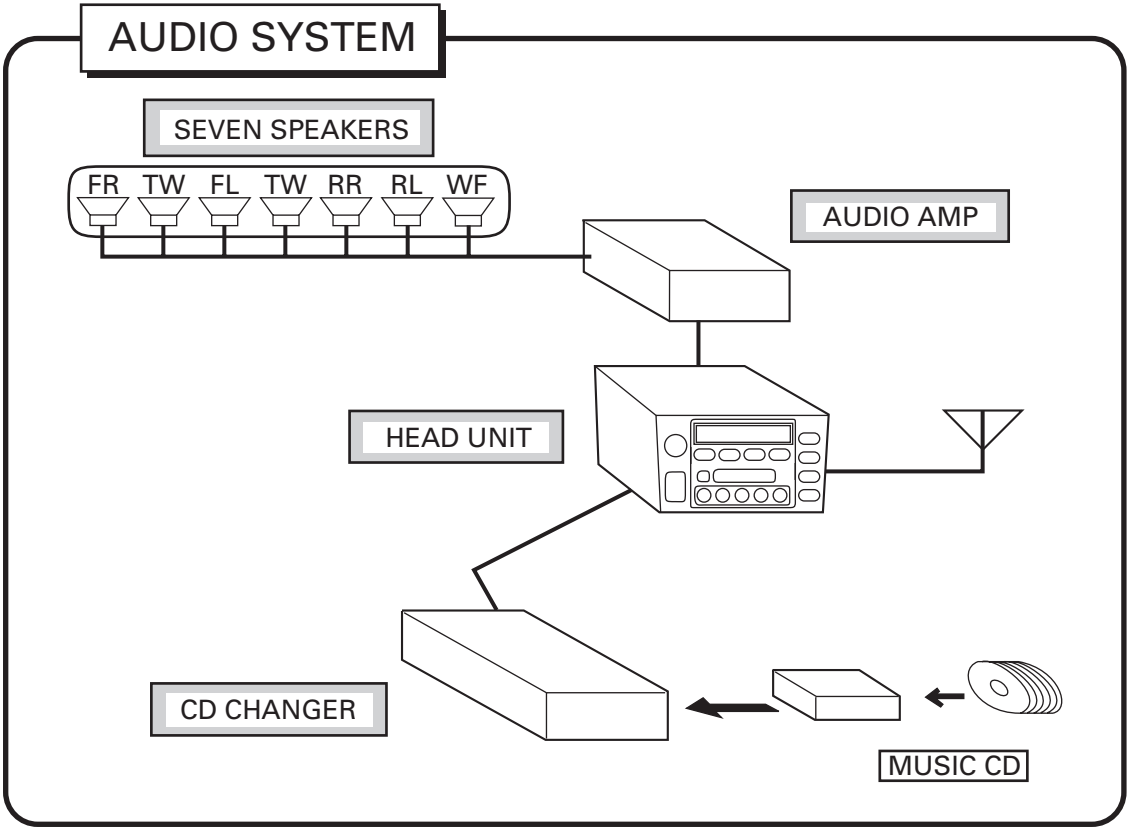


7.4.2 DISPLAY

● CAW1528



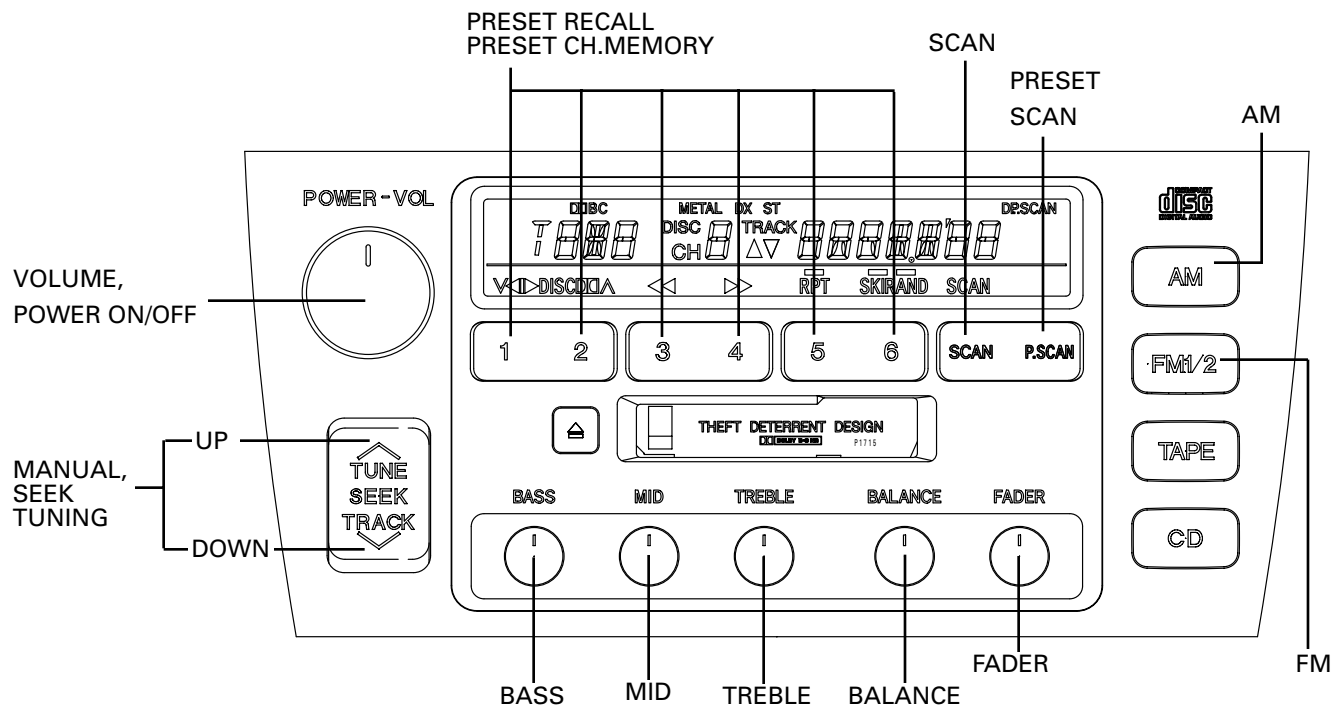
7.5 SYSTEM BLOCK DIAGRAM



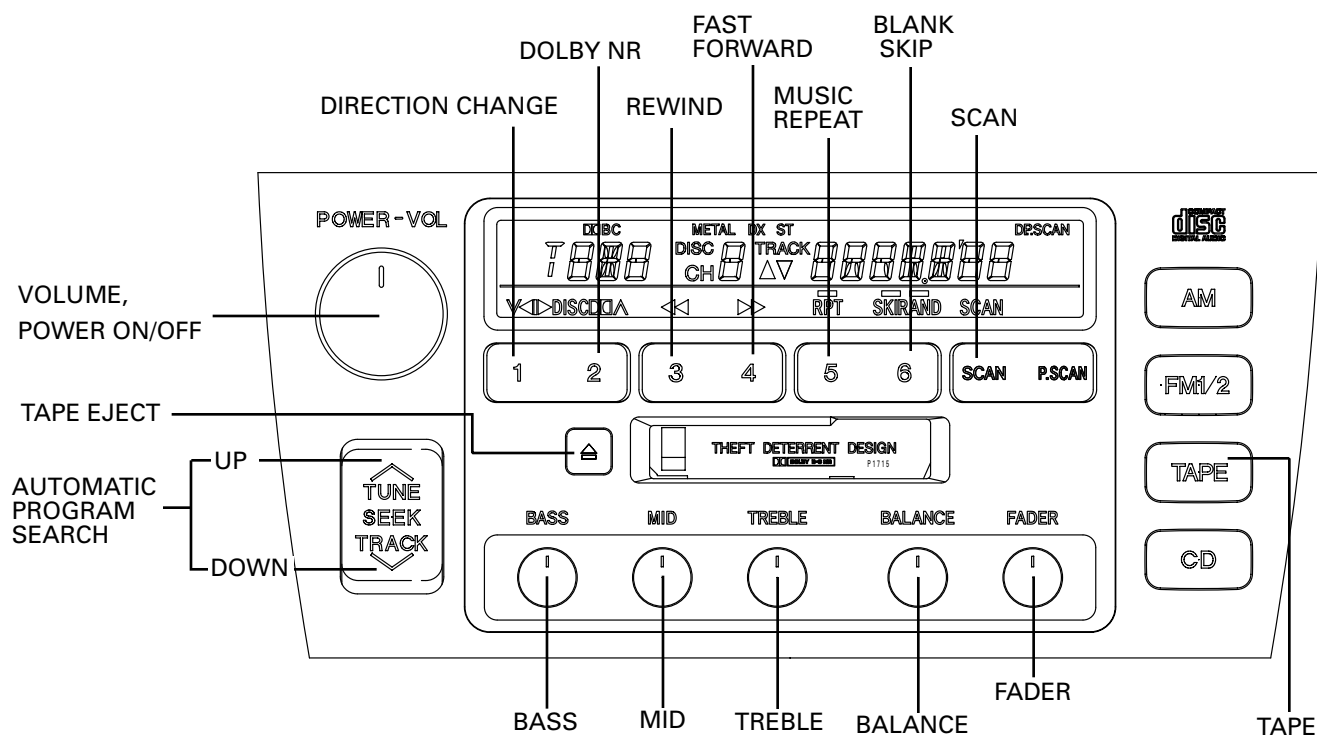
## 8. OPERATIONS AND SPECIFICATIONS

### 8.1 OPERATIONS (KEX-M8196ZT/UC)

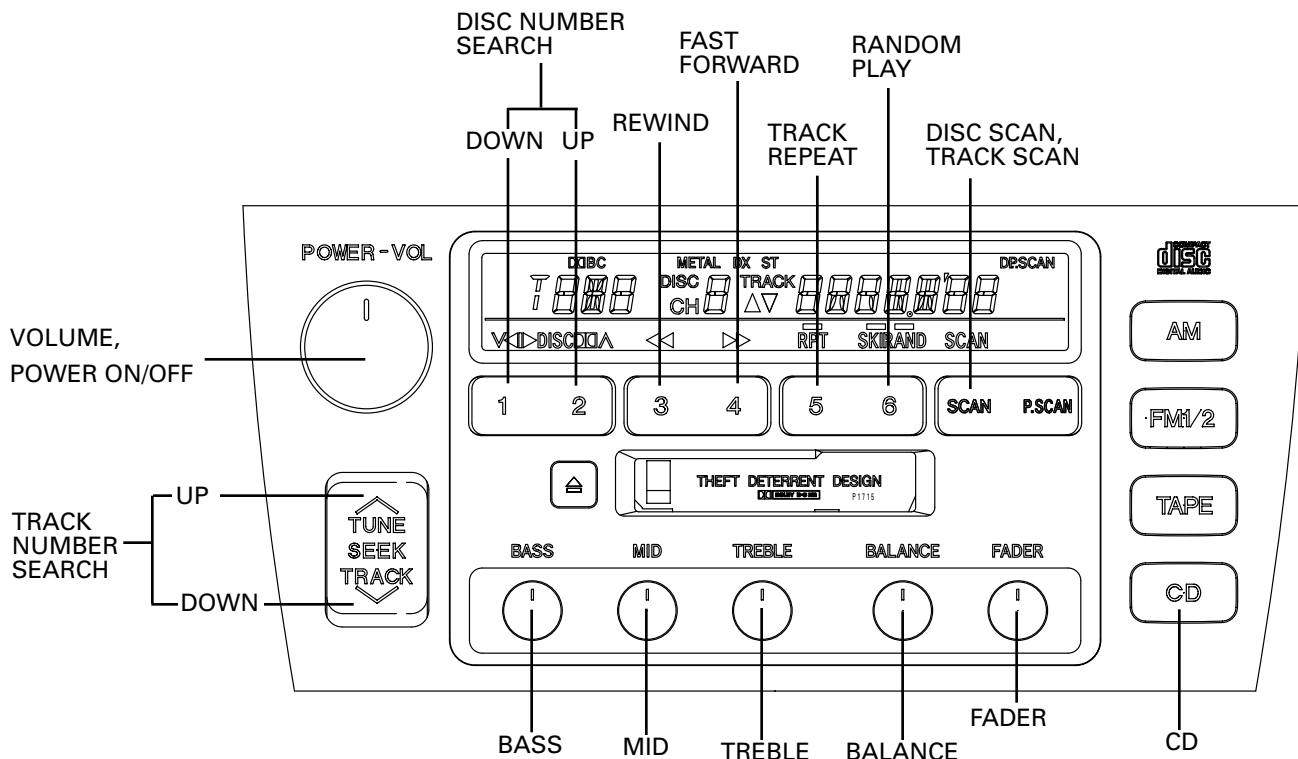
#### ● RADIO



#### ● TAPE



● CD



## 8.2 SPECIFICATIONS

### General

Power source .....13.2 V (10.5 V - 16.0 V allowable)  
 Grounding system.....Negative type  
 Dimensions .....250 ± 0.5 (W) × 114 ± 0.5 (H) × 163.9 (D) mm  
 Weight .....1.7 kg

### Tape player

Tape.....Compact cassette tape (C -30 - C90)  
 Tape speed .....4.76 cm / sec. (+0.14 cm / sec., -0.05 cm / sec.)  
 Wow and flutter .....Less than 0.2%(WRMS)  
 Fast forward/rewind time.....Less than 120sec. for C -60  
 Stereo separation.....More than 30 dB  
 Signal-to-noise ratio .....More than 41 dB

### FM tuner

Frequency range (KEX-M8196ZT/UC) .....87.75 - 107.9 MHz  
 (KEX-M8396ZT-02/ES) .....87.5 - 108.0 MHz  
 Signal-to-noise ratio .....More than 48 dB(stereo)  
 Distortion .....Less than 3.0%(60 dBf, 1kHz, stereo)  
 Stereo separation .....More than 25 dB (60 dBf, 1kHz)

### AM tuner

Frequency range (KEX-M8196ZT/UC) .....530 - 1,710 kHz  
 (KEX-M8396ZT-02/ES) .....531 - 1,602 kHz  
 Usable sensitivity (KEX-M8196ZT/UC) 27dBμ ± 5dB (S/N:20dB)  
 (KEX-M8396ZT-02/ES) 29dBμ ± 5dB (S/N:20dB)  
 Selectivity.....More than 50 dB (±9 kHz)  
 Signal-to-noise ratio.....More than 44 dB (74 dBμ)  
 Distortion.....Less than 1.0% (74 dBμ)

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